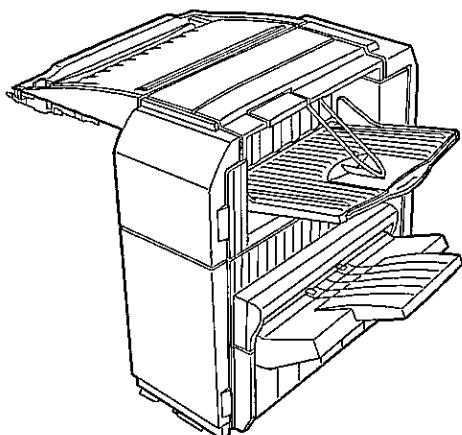


SHARP SERVICE MANUAL

CODE : 00ZARFN6//A1E

AR-FN6



LASER PRINTER OPTIONS FINISHER

MODEL AR-FN6

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Parts marked with “” are important for maintaining the safety of the set.

Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

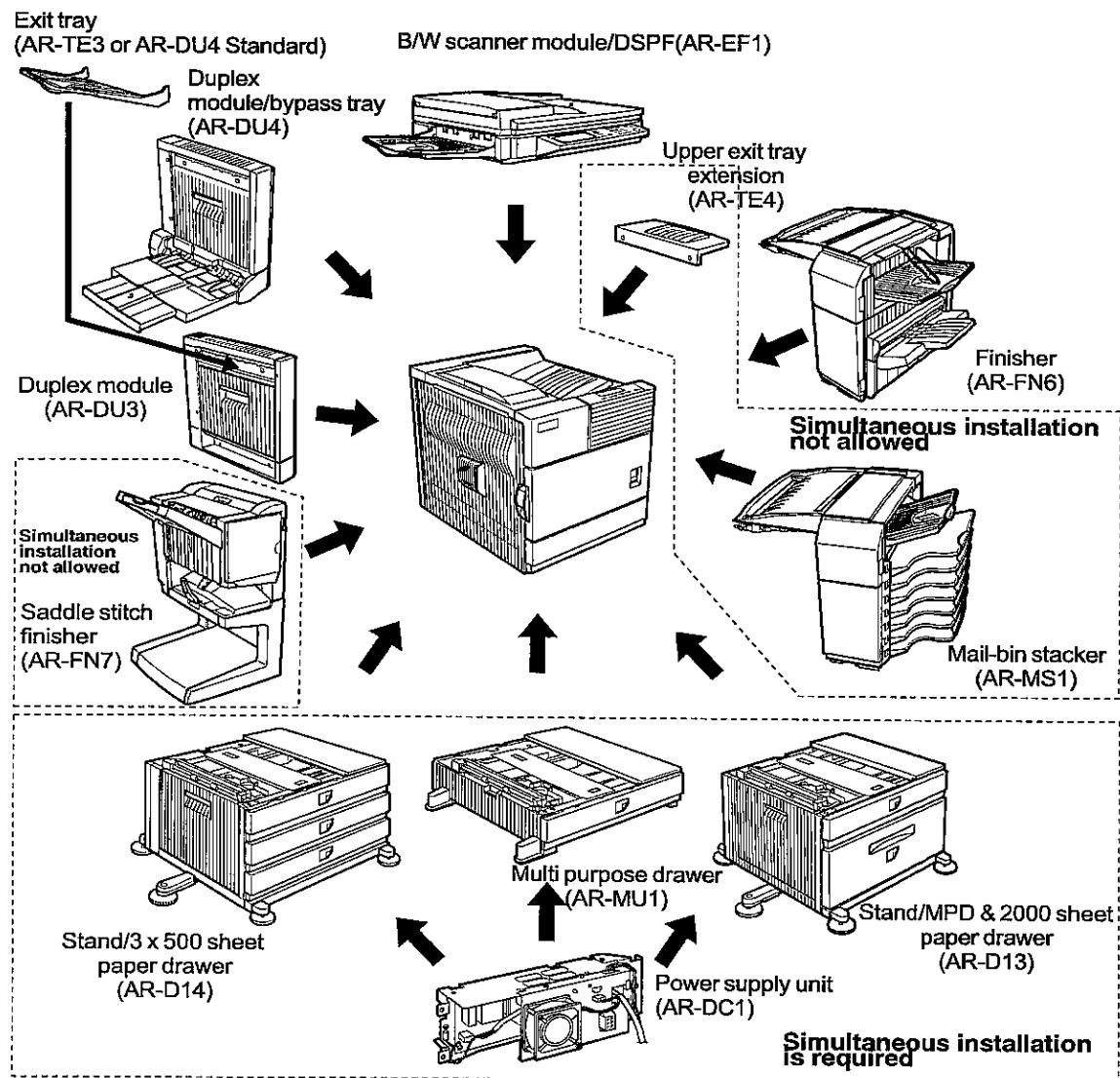
[1] PRODUCT OUTLINE

This unit is installed to one of the following machines to serve as an after-process unit of output paper of a printer, copier or FAX machine. This unit allows to shift each bundle of paper printed in the page sequence or sorted by each page. It also allows to staple a bundle of paper sorted in the page sequence.

Applicable models AR-P350 / P450, AR-M350 / M450

[2] CONFIGURATION

1. Before installing this unit, one of the multi-purpose tray (AR-MU1), the large capacity paper feed desk (AR-D13), and the 3-stage paper feed desk (AR-D14) must be installed in advance.
2. When this unit and the AR-MU1 are installed, the option power unit (AR-DC1) must be installed together.
3. This unit cannot be installed together with the male bin stacker (AR-MS1) and the upper exit tray extension (AR-TE4).



Output units	B/W scanner module/DSPF	Scanner rack	Multi purpose drawer	Stand/3 x 500 sheet paper drawer	Stand/MPD & 2000 sheet	Duplex module/bypass tray	Duplex module	Saddle stitch finisher	Finisher	Mail-bin stacker	Exit tray	Upper exit tray extension	Punch unit	Multi-function controller board	Print server card	PS3 expansion kit	Network scanner expansion kit	Faximile expansion kit	Fax memory (8 MB)	Power supply unit	Hard disk drive
Finisher			<input type="radio"/> ¹					X	-	X		X	X							<input type="radio"/>	

¹ =Any of the units must be installed together.

[3] SPECIFICATIONS

1. Basic

Type	Desktop type finisher with dual exit tray	
Transport speed	To support 35-45 sheet/minute	
Transport alignment	Center alignment	
Tray type (No. of tray)	Upper tray	EXIT tray
	Lower Tray	Ascent/descent type offset tray
Output paper capacity	Upper tray	500 sheets sheets (A4/8.5"x11", 80g/m ²)
	Lower Tray	750 sheets (A4/8.5"x11", 80g/m ²)
Output paper delivery	Face-down	
Output paper size	Upper tray	A3, B4, A4, A4R, B5, B5R, A5R 11"x17", 8.5"x14", 8.5"x13", 8.5"x11", 8.5"x11"R, 5.5"x8.5"R, Executive, Japanese post card, Monarch(98x191),Com-10(105x241), DL(110x220),C5(162x229), ISO B5(176x250)
Spec of media for paper output	Upper tray	Tracing paper:52-59g/m ² / 14-15lbs Plain paper:60-128g/m ² / 16-34lbs Index paper:176g/m ² / 47lbs Cover paper:205g/m ² / 54-55lbs Transparency
	Lower Tray	Plain 60-128g/m ² / 16-34lbs
Remaining paper detection	Upper tray	Not provided
	Lower Tray	Provided
Exit tray full detection	Upper tray	Provided
	Lower tray	Provided
Power consumption	Less than about 67.3W	
Power source	Supplied from the optional power source (AR-DC1) (DC24V 2.7A / DC5V 0.5A)	
External dimensions(WxDxH)	460 x 530 x 508 (mm)	
Occupied dimensions(WxD)	460 x 530 (mm)	
Weight	Approx. 21kg	

2. Staple parts

Offset stack	Offset volume:25mm	
Paper size to be stapled	A4, B5, 8.5"x11"	
Ability of stapler (Max. # of pages for staple)	30 sheets (smaller than A4/8.5"x11", 80g/m ²)	
Stapling pattern	3 patterns (front 1/rear 1/both)	
Stacking performance	Offset	Horizontal displacement: Less than 15mm (Less than 10mm up to 250 sheets) Vertical displacement: Less than 15mm (In the non-staple mode on the offset tray)
Matching	Max. deviation width	Within 2mm (In the staple mode on the offset tray)
Staple supply	Refill system	
Staple detection	Staple empty	Provided
	No cartridge	Provided
	Staple jam	Provided
Kinds of paper which cannot be stapled	Pre-punched paper, transparency film, heavy paper, label, envelope, postcard	

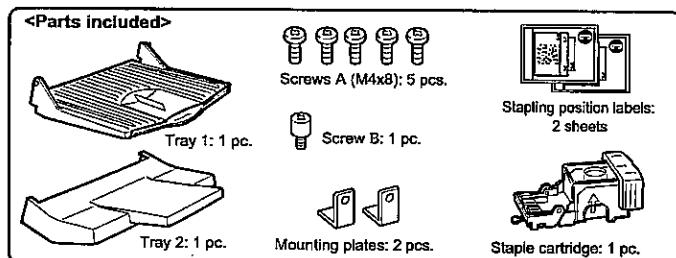
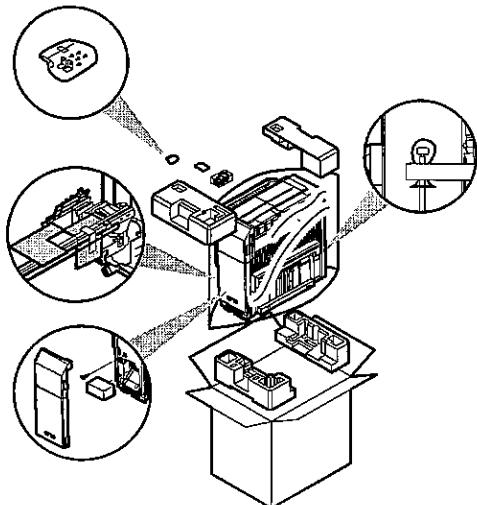
3. Consumable parts

Name	Content	Life	Product name	Remark
Staple cartridge	Staple x3	3000x3	AR-SC1	Common with cartridge for AR-FN4 & AR-FN6

[4] UNPACKING AND INSTALLATION

<Before installation>

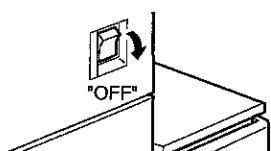
- Start installation after checking that the DATA and COMMUNICATION indicators on the operation panel are neither lit nor blinking.
- For installation of AR-FN6, an optional stand/paper drawer (stand/MPD & 2000 sheet paper drawer, stand/3 x 500 sheet paper drawer or multi purpose drawer) must have been installed.
- Also if a multi purpose drawer has been installed, a power supply unit (AR-DC1) is needed additionally.



1) Turn off the main switch of the main unit of the printer.

Turn the main switch located on the front side of the main unit to the "OFF" position.

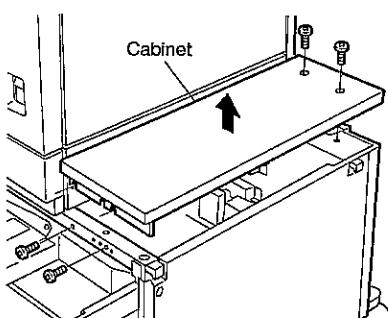
Then, remove the power plug of the main unit from the outlet.



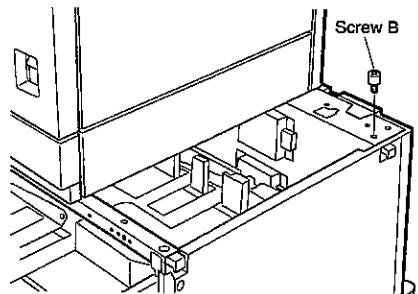
2) Remove the upper cabinet of the stand/paper drawer.

<1> Pull out the paper tray of the stand/paper drawer.

Remove the four screws attached to the right on the top of the stand/paper drawer and remove the cabinet.

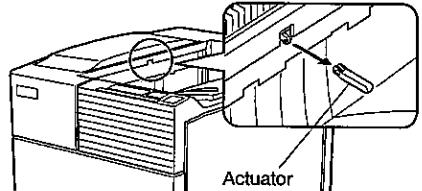


<2> Mount screw B to the position shown in the illustration.

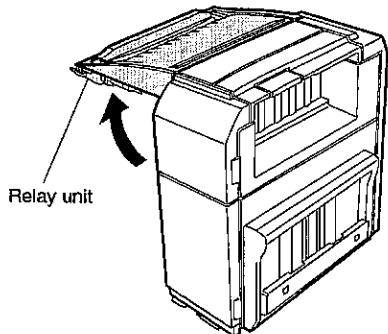


3) Attach the finisher.

<1> Remove the paper exit actuator from the main unit of the printer.



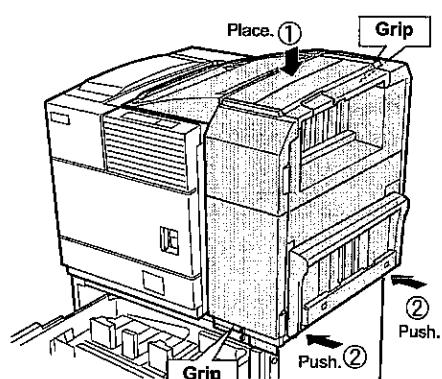
<2> Raise the relay unit at the side of the finisher.



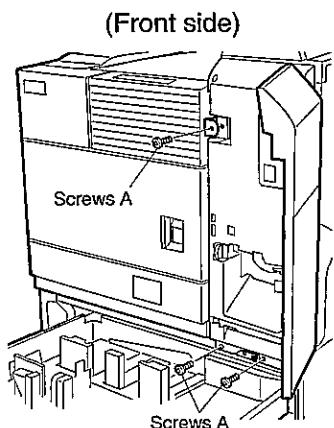
<3> Hold the grip of the finisher and place the finisher on the stand/paper drawer temporarily.

Then, push the lower part to attach the finisher by sliding it toward the exit tray of the main unit.

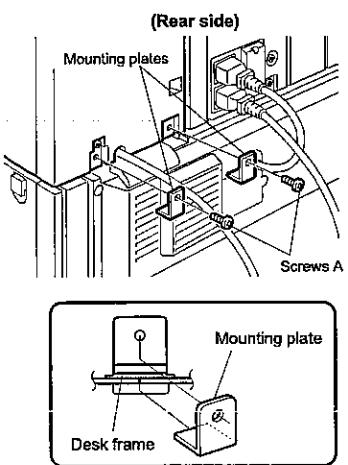
At this time, align the finisher with the exterior line of the stand/paper drawer.



<4>Open the front cover of the finisher and fix the finisher with three screws A at the positions shown in the illustration.
Then, close the front cover and close the paper tray of the stand/paper drawer.



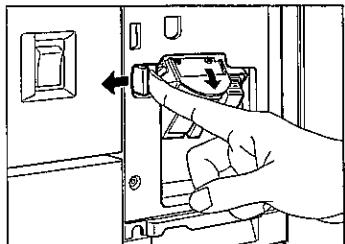
<5>Attach the mounting plates to the positions shown in the illustration and fix them with screws A.



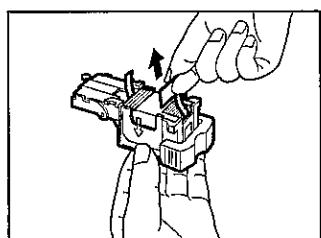
Caution: Insert the mounting plate under the desk frame.

4) Insert the staple cartridge.

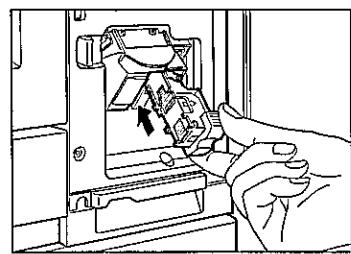
<1>Pull out the staple unit.



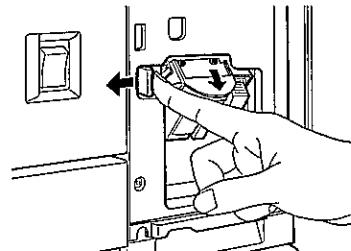
<2>Remove the sealing tape from the staple cartridge.



<3>Insert the staple cartridge.

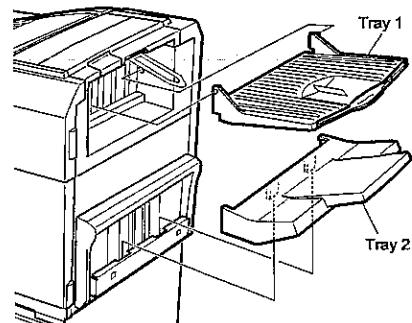


<4>Slide the release lever to the left and return the staple unit.



5) Attach the trays.

Attach tray 1, tray 2 to the positions shown in the illustration.



Steps 6) and after are the procedure to be carried out when a multi purpose drawer has been installed.

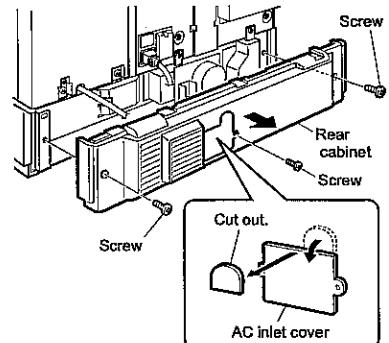
If a stand/MPD & 2000 sheet paper drawer or a stand/3 x 500 sheet paper drawer has been installed, carry out steps 9).

6) Process the AC inlet cover attached to the rear cabinet of the stand/paper drawer.

<1>Remove the two screws that secure the rear cabinet and remove the rear cabinet.

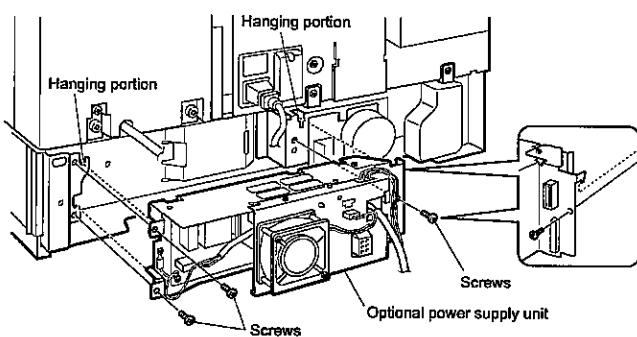
<2>Remove the screw that fixes the AC inlet cover and then remove the AC inlet cover.

Process the AC inlet cover as shown in the illustration.



7) Attach the power supply unit.

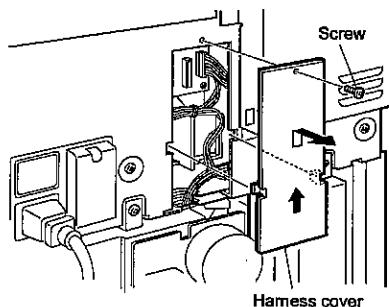
Attach the power supply unit to the hanging portions and secure it using the supplied three screws.



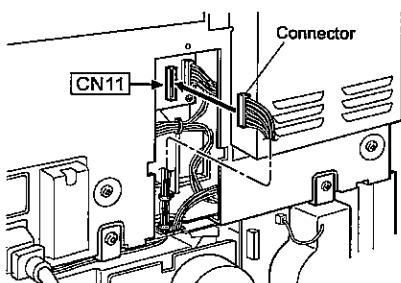
8) Connect the power supply unit harness to the PCU PWB of the main unit of the printer.

<1> Remove the screw that fixes the harness cover of the main unit of the printer and slide the harness cover up to remove it.

Process the harness cover as shown in the illustration.

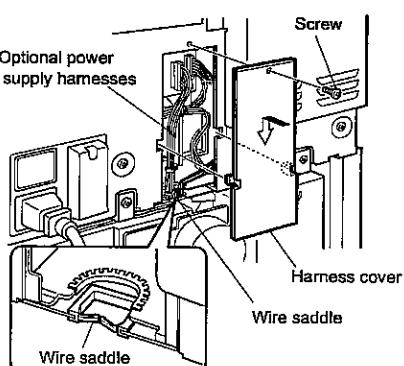


<2> Connect the power supply unit harness connector to CN11 (red connector) of the PCU PWB of the main unit of the printer.



<3> Reattach the harness cover to its original position and fix it with the removed screw.

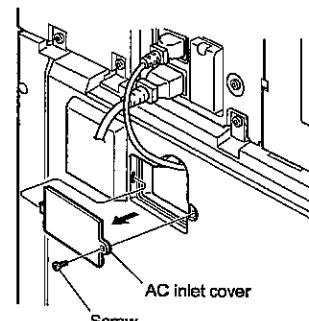
At this time, ensure that the power supply unit harness is arranged as shown in the illustration.



* Fix the harness securely to the wire saddle.

9) Remove the AC inlet cover and then remove the rear cabinet of the stand/paper drawer.

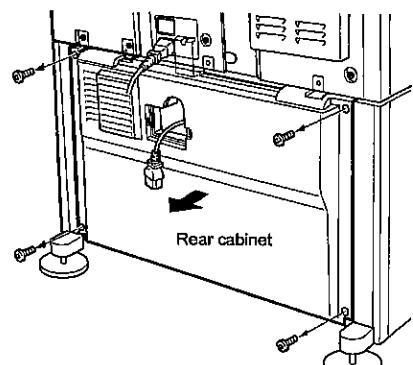
<1> Remove the screw that fixes the AC inlet cover and then remove the AC inlet cover.



(* Similar work for the multi purpose drawer)

<2> Remove the AC cord of the power supply unit from the inlet connector of the main unit of the printer.

Remove the four screws that fix the rear cabinet and then remove the rear cabinet.

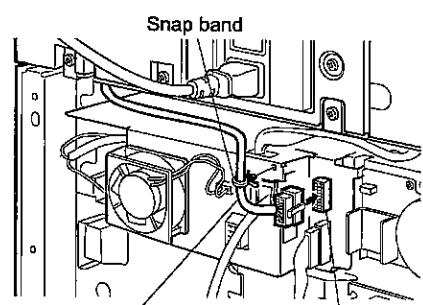


(* Similar work for the multi purpose drawer)

10) Arrange the harness of the finisher.

<1> Pass the harness of the finisher between the power supply unit and the frame of the stand/paper drawer and connect it to the connector of the power supply unit.

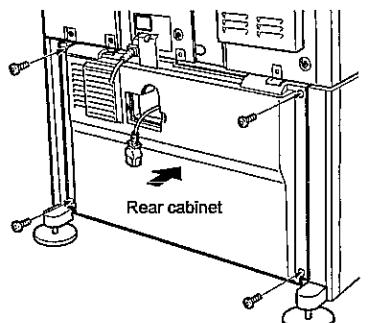
<2> Fit the snap band attached to the finisher at the position shown in the illustration to fix the harness.



(* Similar work for the multi purpose drawer)

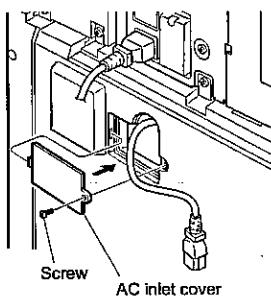
11) Attach the rear cabinet of the stand/paper drawer.

<1>Pass the AC cord of the power supply unit as shown in the illustration and fix the rear cabinet of the stand/paper drawer with the screws.



(* Similar work for the multi purpose drawer)

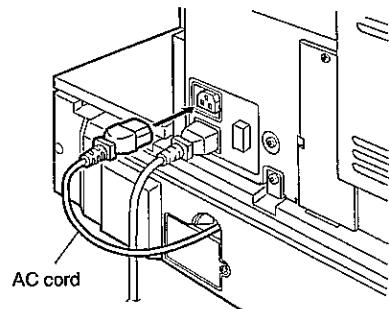
<2>Attach the AC inlet cover to the rear cabinet of the stand/paper drawer and fix it with the removed screw.



(* Similar work for the multi purpose drawer)

12) Connect the AC cord of the optional power supply unit to the main unit of the printer.

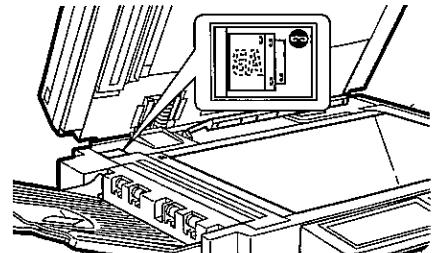
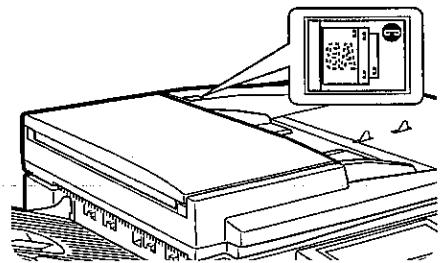
<1>Connect the AC cord of the power supply unit to the inlet connector of the main unit of the printer at the location shown in the illustration.



13) Paste the stapling position label.

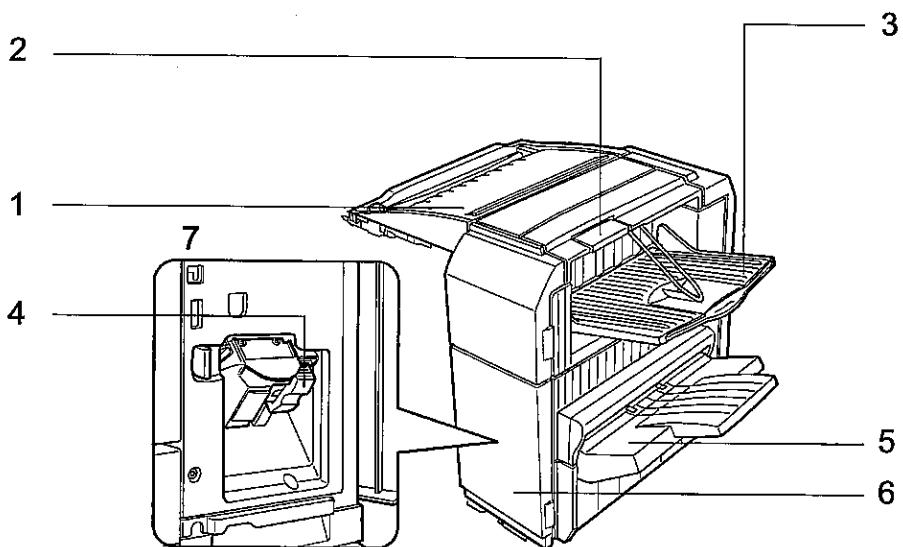
(Paste it only if the scanner module is installed.)

Paste the label to the position shown in the illustration.



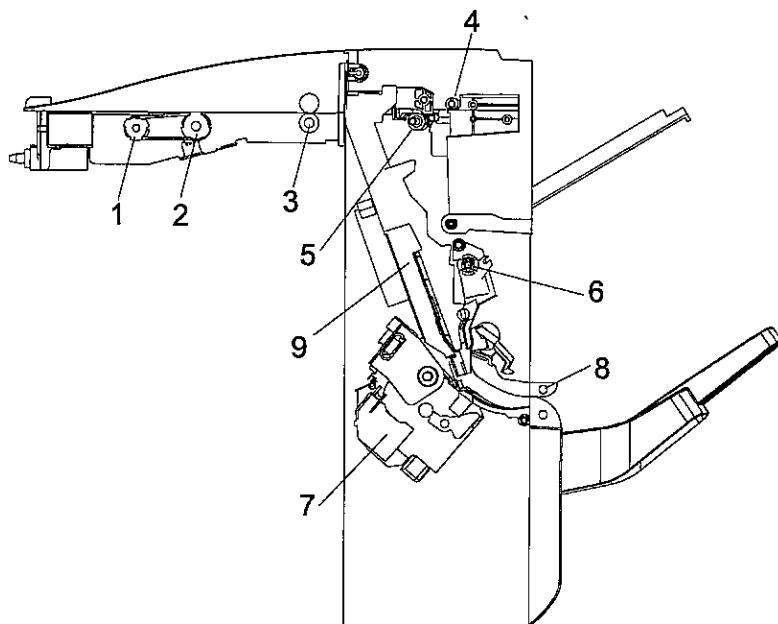
[5] EXTERNAL VIEWS AND INTERNAL STRUCTURES

A. External view



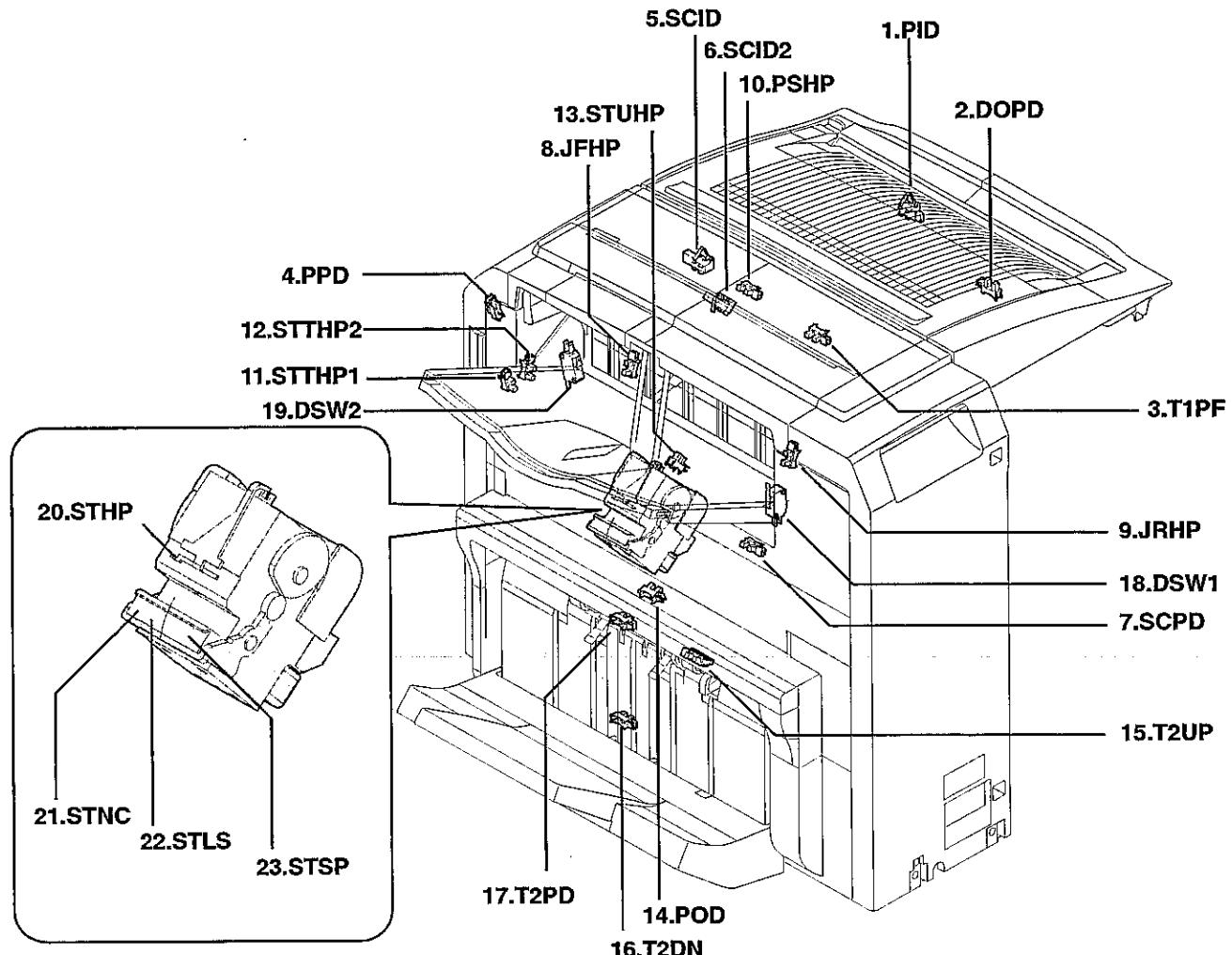
1	Top cover	2	SF Knob	3	Top tray	4	Staple cartridge
5	Offset tray	6	Front door	7	Staple unit		

B. Internal structure



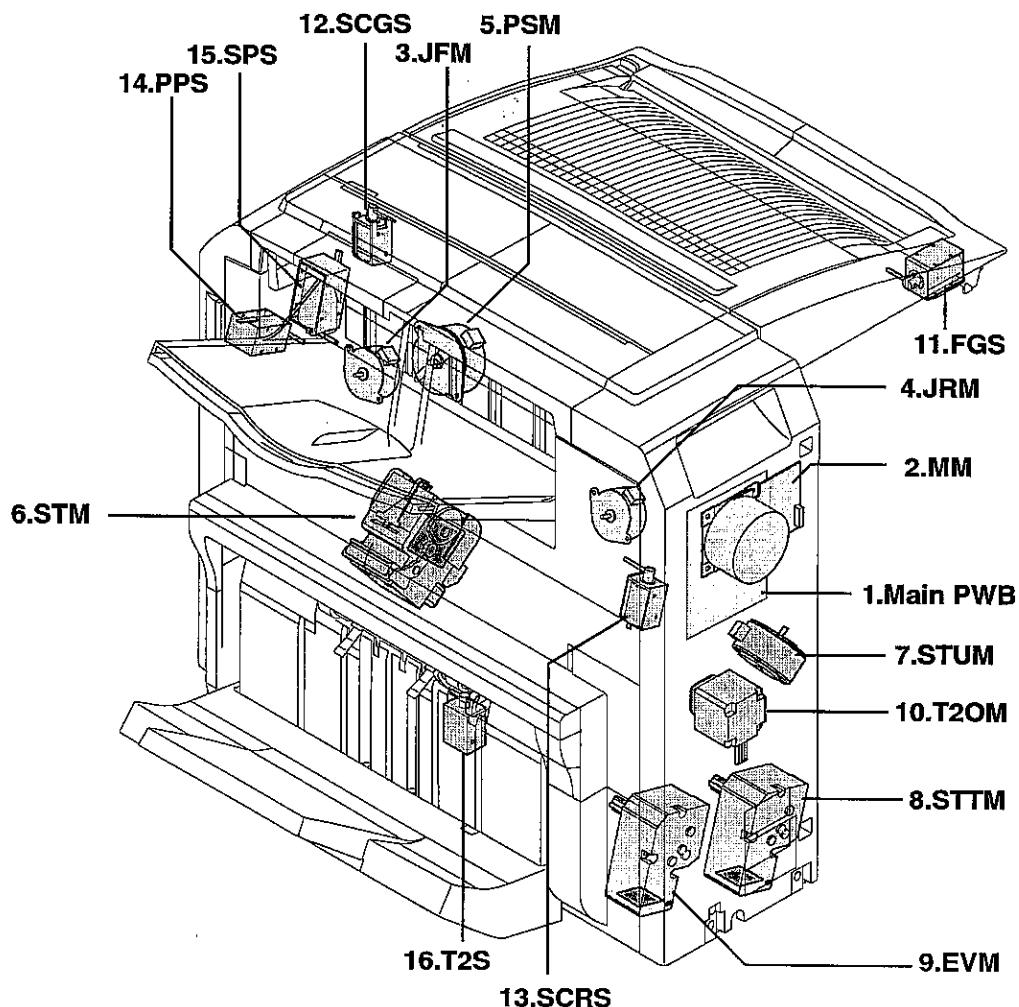
1	Finisher transport roller R1	2	De-curler roller	3	Transport roller R2
4	No.1 tray paper exit roller	5	S paper entry roller	6	Transport roller R2
7	Stapler unit	8	Lower tray paper exit roller	9	Alignment tray

C.Sensor



	Code	Name	Function	Active condition	Remark
1	PID	Paper In Detect Sensor	Detection of paper entry into the interface transport section	L : Paper loaded	
2	DOPD	Door Open Detect Sensor	Upper side cover open/close detection	L : Door open	
3	T1PF	Tray 1 Paper Full Detect Sensor	Upper side tray paper exit full detection	L : Paper full	
4	PPD	Paper pushl Detect Sensor	Detection of paper holding return in the compiler	H : Home position	
5	SCID	Staple Compiler In Detect Sensor 2	Staple paper entry detection	L : Paper loaded	
6	SCID2	Staple Compiler In Detect Sensor	Staple paper entry detection	L : Paper loaded	
7	SCPD	Staple Compiler Paper Detect Sensor	Paper detection in the compiler	L : Paper loaded	
8	JFHP	Jogger Front Home Position Sensor	Jogger F home position detection	H : Home position	
9	JRHP	Jogger Rear Home Position Sensor	Jogger R home position detection	H : Home position	
10	PSHP	Pushher Home Position Sensor	Pusher home position detection	H : Home position	
11	STTHP1	Staple Turn Home Position Sensor 1	Staple rotation home position detection		Detected by combination of STTHP1 and STTHP2
12	STTHP2	Staple Turn Home Position Sensor 2	Staple rotation home position detection		
13	STUHP	Staple Turn Home Position Sensor	Staple shift home position detection	H : Home position	
14	POD	Paper Out Detect Sensor	Paper exit detection	L : Paper loaded	
15	T2UP	Tray 2 Upper Detect Sensor	Offset tray upper limit position detection	H : Upper limit	
16	T2DN	Tray 2 Down Detect Sensor	Offset tray lower limit position detection	H : Lower limit	
17	T2PD	Tray 2 Paper Detect Sensor	Offset tray paper empty detection	L : Paper loaded	
18	DSW1	Door Switch 1	Right upper door open/close detection	L : Door open	
19	DSW2	Door Switch 2	Front door open/close detection	L : Door open	
20	STHP	Stapler Home Position Sensor	Stapler home position detection	L : Home position	
21	STNC	Stapler No Cartridge Sensor	Stapler cartridge empty detection	H : Empty	
22	STLS	Stapler Low Staple Sensor	Stapler staple empty detection	H : Empty	
23	STSP	Stapler Self Priming Sensor	Stapler staple ready position detection	L : Ready	

D. Motor, Clutch, Solenoid, PWB



Code	Name	Function	Remark
1	Main PWB	Main Control PWB	Communication with the machine, control of the machine operations
2	MM	Main Motor	Drives transport rollers
3	JFM	Jogger Front Motor	F side alignment plate drive
4	JRM	Jogger Rear Motor	R side alignment plate drive
5	PSM	Pusher Motor	Pusher drive
6	STM	Staple Motor	Staple drive
7	STUM	Staple Unit Motor	Stapler shift
8	STTM	Staple Unit Turn Motor	Stapler rotation
9	EVM	Elevator Motor	Offset tray up-down shift
10	T2OM	Tray 2 Output Motor	Drive of paper exit paddler to offset tray
11	FGS	Finisher Gate Solenoid	Paper entry gate selection
12	SCGS	Staple Compiler Gate Solenoid	Staple paper entry gate selection
13	SCRS	Staple Compiler Rotor Solenoid	Belt roller press/release selection
14	PPS	Paper Push Solenoid	Paper rear edge holding drive selection
15	SPS	Stopper Solenoid	Stopper drive selection
16	T2S	Tray 2 Solenoid	Paper exit paddler drive selection

[6] MACHINE OPERATION

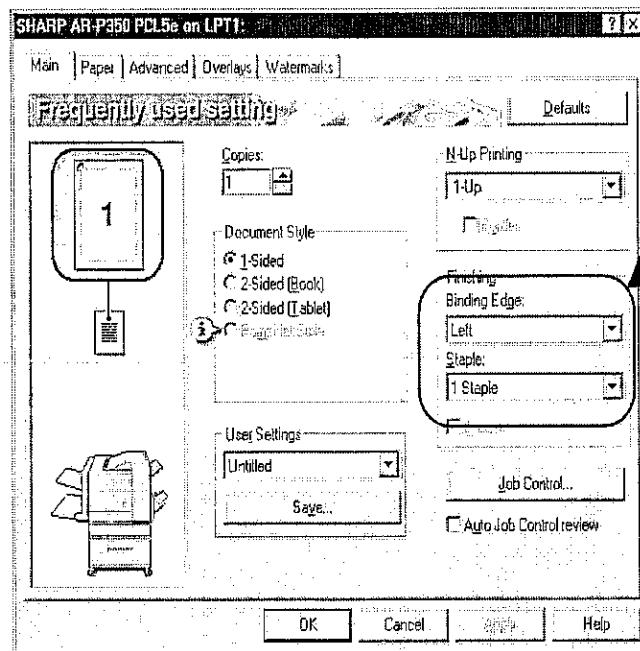
1. Using the stapling function from the printer feature

When using the stapling function, select "Properties" on the printer driver setting screen, open the "Main" tab shown in the right illustration, and then select "Left", "Right" or "Top" at "Binding Edge" and "1 Staple" or "2 Staples" in the "Staple" drop down.

NOTES:

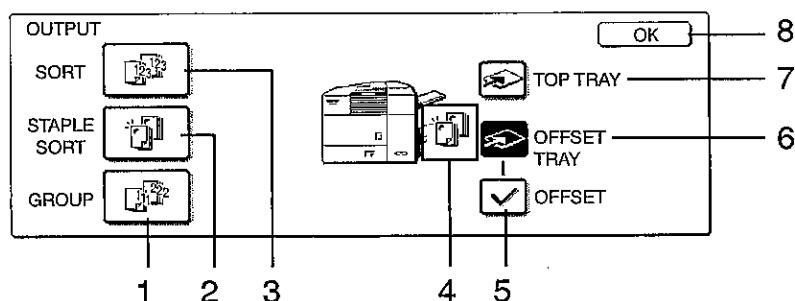
- The settings screens above will appear only if the devices have been set properly in the printer driver.
- The combination of paper selection and other functions may not be compatible. For instance, if heavy paper, envelopes, label stock, etc. are selected, it will not be possible to select duplex, offset tray, saddle stitch, etc.

The illustration below shows the screen for a PCL printer driver in the Windows 98 environment.



2. Using the finisher functions in the copy mode

If you touch the [OUTPUT] key on the copy mode basic screen, a screen for selecting the sort/group/staple sort functions and selecting an exit tray will appear.



1 : [GROUP] key

If this function is selected, all copies of the same original will be grouped.

2 : [STAPLE SORT] key

If this function is selected, sorted copies will be stapled and delivered to the offset tray. (not offset stacked)

3 : [SORT] key

If this function is selected, each set of copies will be sequentially delivered.

4 : Icon display

The icon of the selected function (sort, staple sort or group) is displayed.

5 : [OFFSET] key

If this function is selected (checked), the offset function will be enabled. If the check mark is cleared, the offset function will be disabled. (If the staple sort function is selected, the check mark of the offset function will be automatically cleared.)

6 : [OFFSET TRAY] key

If the offset tray is selected, printed sheets will be delivered to the offset tray. (If the staple sort function is selected, the offset tray will be automatically selected.)

7 : [TOP TRAY] key

If the top tray is selected, printed sheets will be delivered to the top tray.

8 : [OK] key

Press to close this screen and to return to the basic screen.

* If a function is selected, the corresponding key will be highlighted.

3. Stapling position quick reference list

When stapling is performed, the orientation of image data or original is related to the stapling position, binding position and orientation of paper complicatedly. The table below shows the relation.

		Image data or original			Result	
		First page (front side)	Second page (reverse side)	Two sides		
Portrait orientation printing	Left binding	A1	B2	A1, B2, A1	One-position stapling	Two-position stapling
	Top binding	A1	B2	B2, A1	One-position stapling	Two-position stapling with top binding cannot be made.
	Right binding	A1	B2	A1, B2, A1	One-position stapling	Two-position stapling
	Left binding	A1	B2	B2, A1	One-position stapling	Two-position stapling with left binding cannot be made.
	Top binding	A1	B2	B2, A1	One-position stapling	Two-position stapling
	Right binding	A1	B2	A1, B2, A1	One-position stapling	Two-position stapling with right binding cannot be made.

■ ■ ■ indicates stapling positions.

NOTES:

- When using the stapling function, select the offset tray as an exit tray. If another tray is selected, the stapling function cannot be used.
- Select only one paper size. If different sizes are included, stapling cannot be performed.

* The following types of paper cannot be stapled.

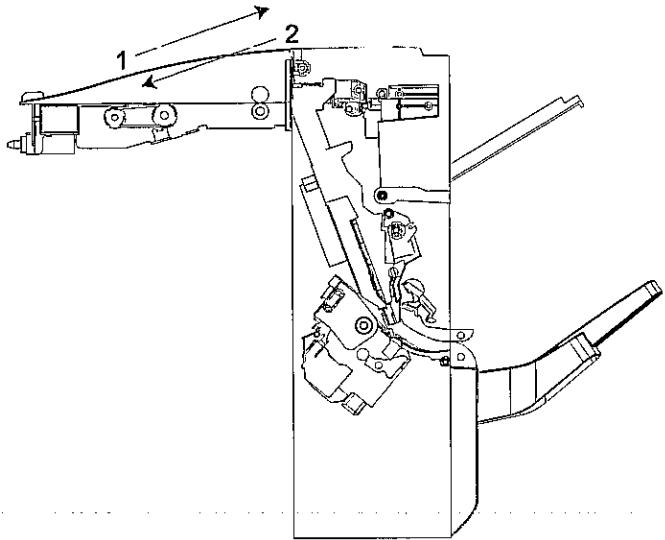
Pre-punched paper, transparency film, heavy paper, label, envelope, postcard

[7] OPERATIONAL DESCRIPTIONS

1. Paper transport path

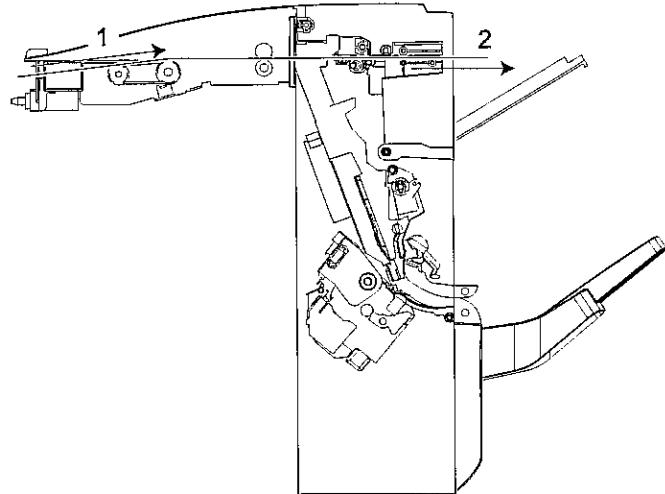
A. Machine paper exit reverse (Switchback)

When the duplex print or the left side paper exit tray is selected, paper is once discharged to the interface unit and then switched back.



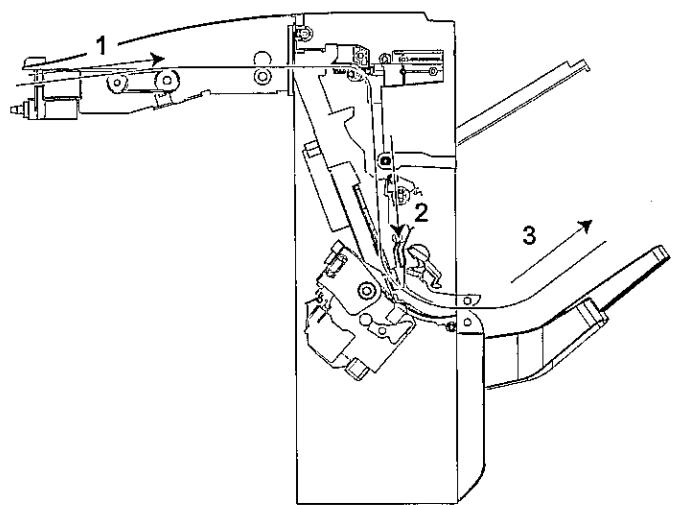
B. Paper exit to the upper tray

In the normal paper exit operation, paper is discharged to the upper tray.



C. Paper exit to the lower tray

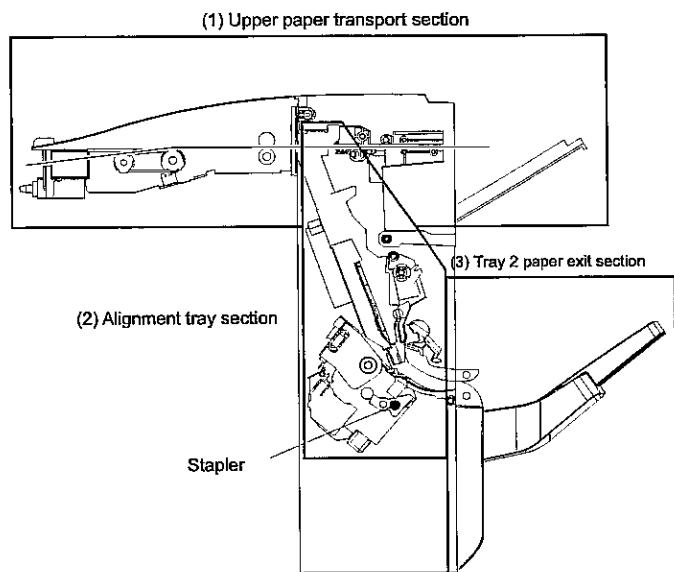
When stapling or offset operation is performed, paper is discharged to the lower tray.



2. Descriptions of each section

The finisher is composed of (1) upper paper transport section, (2) alignment tray section, and (3) tray 2 paper exit section.

Offset and stapling (3 positions) can be performed with paper exit to tray 2 as well as the selected tray by the command from the machine.



A. Upper transport section

(1) Paper transport path

By rotating the main motor (MM), all the transport rollers in the unit (except for the tray 2 final roller) are driven.

(2) Interface unit paper entry gate

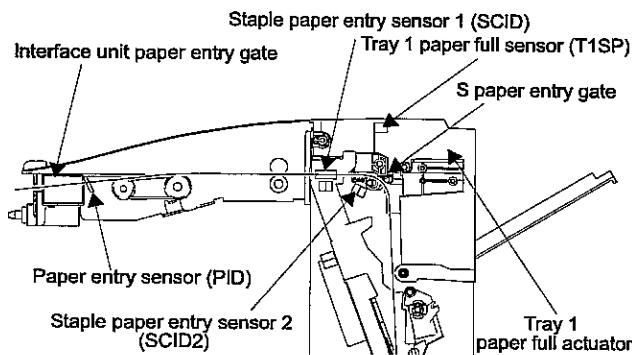
The finisher gate solenoid (FGS) operates the interface unit paper entry gate to perform machine paper exit reversion and selection of the paper path to the tray 1 and the tray 2.

(3) S paper entry gate

The compiler paper entry gate solenoid (SCGS) operates the S paper entry gate to select the paper path to the tray 1 or the tray 2.

(4) Tray 1 paper full detection

Tray 1 paper full detection is performed by the tray 1 paper full sensor (T1PF) in linkage with the tray 1 paper full actuator.



B. Alignment tray section

(1) Jogger F/R

The jogger F/R motors (JFM, JRM) are driven at the timing of paper entry into the alignment tray to operate the joggers F/R (alignment plates on both sides), making transverse alignment of paper.

(2) Pusher

The pusher motor (PSM) is driven at the timing of paper entry into the alignment tray to operate the pusher (upper alignment plate). Paper is squeezed with the pusher and the stopper which is provided at the lead edge of paper to make longitudinal alignment of paper. The pusher also serves to hold the rear edge of a paper bundle in order not to change the sequence of the next paper when it enters the alignment tray. It also pushes a stapled paper bundle to the tray 2 in the staple mode.

(3) Stopper

The stopper is driven by the stopper solenoid (SPS) to stop the lead edge of paper in order to hold paper in the alignment tray.

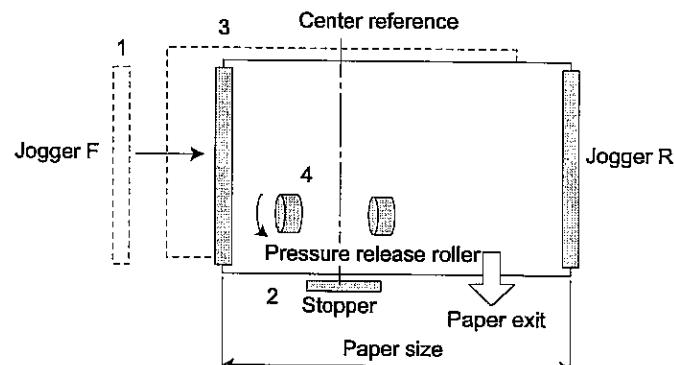
(4) Pressure release roller

The pressure release roller is driven by the pressure release solenoid (SCRS). It is pressed when paper is transported from the alignment tray to the tray 2. It also serves to improve longitudinal alignment capability when paper enters the alignment tray in the staple mode.

(5) Paper holder

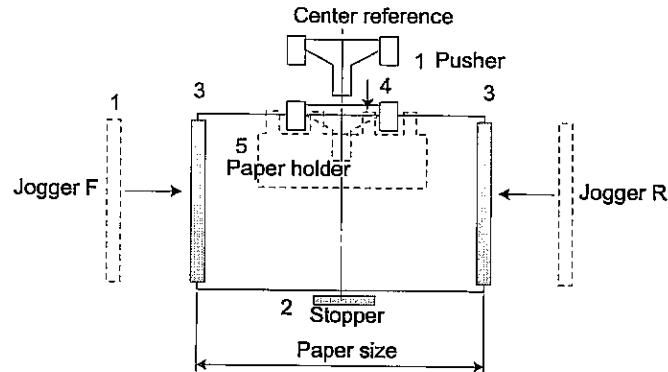
The paper holder is driven by the paper holder solenoid (PPS) to hold the rear edge of paper in the alignment tray.

(6) Alignment and paper exit in offset



- 1) The joggers F/R are moved to the standby position before paper entry into the alignment tray, and paper is passed to the alignment tray.
- 2) When paper is passed into the alignment tray, the stopper solenoid is turned on to receive paper.
- 3) After paper entry into the alignment tray, the joggers are moved to the suitable positions according to the paper size, and paper is offset.
- 4) The stopper solenoid is turned off and the pressure release (roller) solenoid is turned on to discharge paper to the tray 2.

(7) Alignment in stapling



- 1) Before paper entry into the alignment tray, the joggers F/R are moved to the standby position, and paper is entered into the alignment tray.
- 2) When paper enters the alignment tray, the stopper solenoid is turned on to receive paper.
- 3) After paper entry into the alignment tray, the joggers F/R are moved to the paper size positions to align paper.
- 4) The paper holder solenoid is turned on at the same time with (3) to hold the rear edge of entered paper, and the pusher is moved to the paper size position.
- 5) After completion of moving the pusher, the paper holder solenoid is turned off.

(8) Staple unit

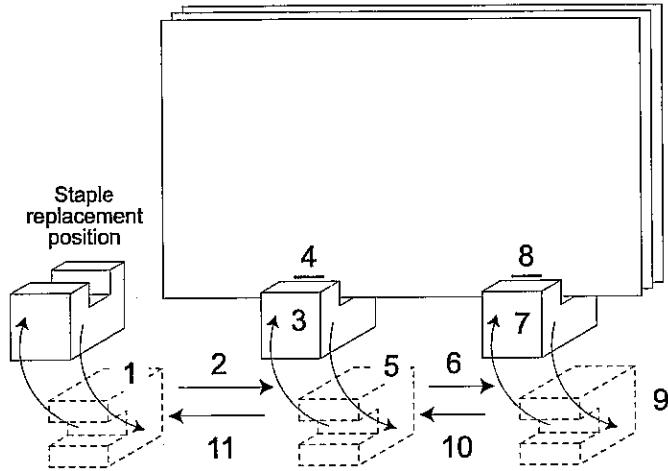
The stapler staples paper. The ST shift motor slides the stapler horizontally with the paper lead edge according to the staple positions (forward, backward, 2 positions).

The ST rotating motor (STTM) rotates the stapler from the save position to the stapling position, and can slide the staple replacement position horizontally and can discharge paper.

(9) Stapler

The stapler can staple max. 30 pages of 80g paper. It is composed of the drive DC motor (STM), the home position sensor (STHP), the staple empty sensor (STLS), the cartridge empty sensor (STNC), and the self-priming sensor (STSP) which detects a staplable position.

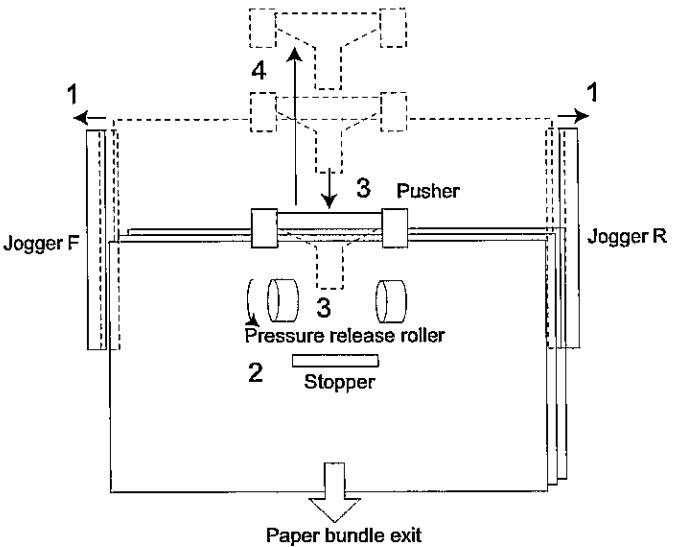
(10) Stapling



- 1) The stapler is moved from the staple replacement position to the slideable position.
- 2) The stapler is shifted to the stapling position.
- 3) The stapler is rotated to the stapling position.
Put paper to be stapled in the staple tray.
- 4) Paper is stapled.
- 5) The stapler is rotated to the standby position.
When in one-position stapling, a bundle of paper is discharged to the tray 2 (paper exit section), and the procedure goes to (10)
- 6) The stapler is shifted to the second stapling position.
- 7) The stapler is rotated to the stapling position.
- 8) Paper is stapled. (Second stapling)
- 9) The stapler is rotated to the standby position.
The bundle of paper is discharged to the tray 2 (paper exit section)
- 10) After completion of a job, the stapler is shifted to the staple replacement position.
- 11) The stapler is rotated to the staple replacement position.

For one-position stapling, however, procedures (6) - (10) are not performed.

(11) Paper exit after stapling



- 1) The joggers F/R are moved to the paper exit position.
- 2) The stopper solenoid is turned off.
- 3) The pressure release solenoid is turned on to shift the pusher to the paper exit position, and the paper bundle is discharged to the tray 2 paper exit section.
- 4) The pressure release solenoid is turned off and the pusher is returned to the home position.

C. Tray 2 paper exit section

(1) Paper transport

Only in paper exit to the tray 2, the final roller is driven by rotating the paper exit motor (T2OM).

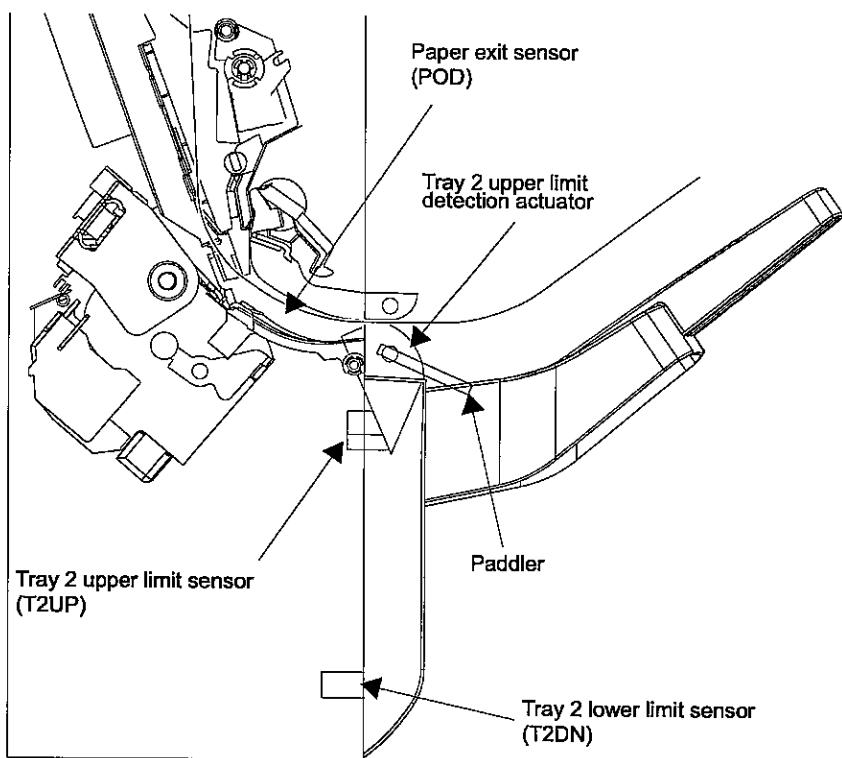
(2) Elevator operation and tray 2 paper full detection

The elevator motor is rotated to move the tray 2 up and down so that paper is discharged at the fixed position according to the quantity of paper loaded in the tray 2.

The tray 2 full is detected when both the tray 2 upper limit sensor which is linked with the tray 2 upper limit actuator and the tray 2 lower limit sensor are on.

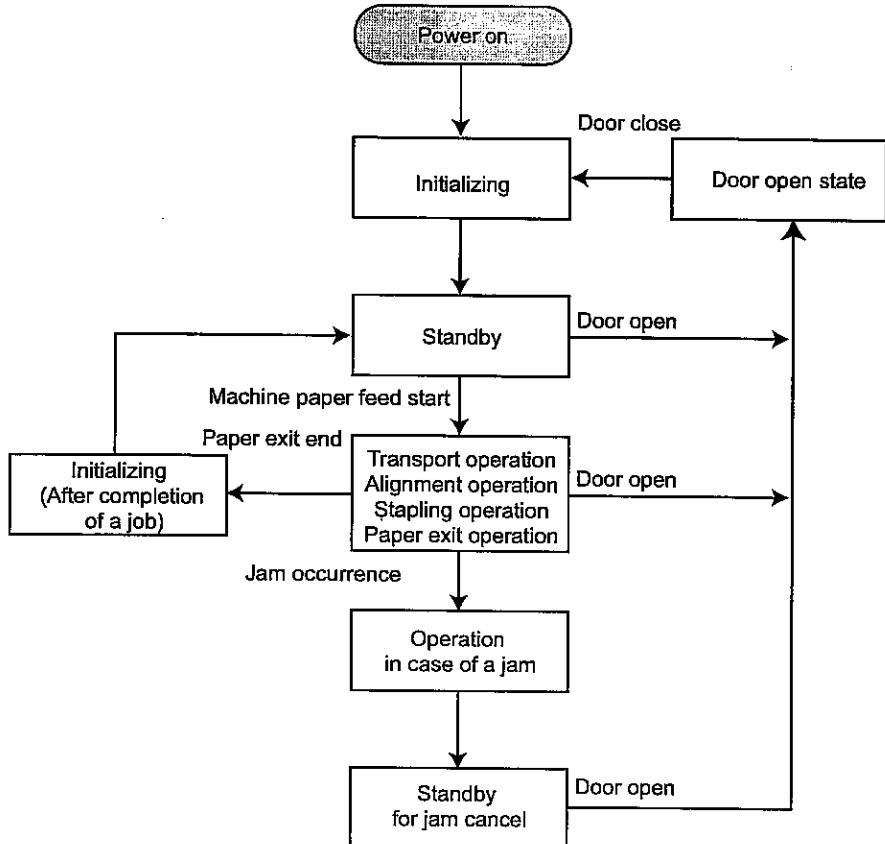
(3) Paddler operation/tray 2 upper limit detection actuator operation

When the paper exit motor is rotating, the tray 2 solenoid (T2S) is turned on so that the paddler is rotated to pull paper and pull the actuator toward the unit in order to improve the stacking capacity of paper loaded in the tray 2.



3. Basic operation

A. Basic operation flow

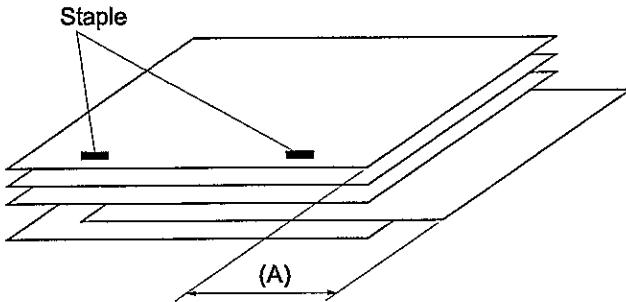


[8] ADJUSTMENTS

1. Jogger position adjustment

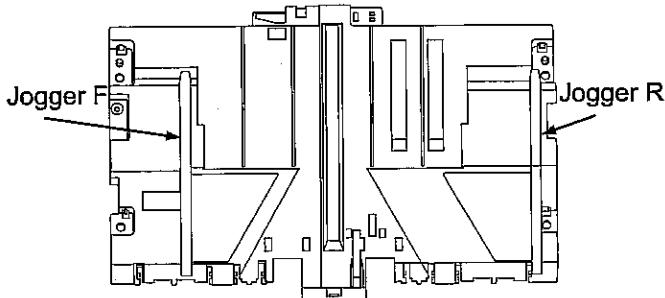
A. Jogger F/R

1) Staple 5 sheets of A4 or LT paper and check the paper shift (A) shown in the figure below.



2) If the shift (A) is less than 1mm, there is no need to adjust.
3) If the shift (A) is 1mm or greater, adjust as shown in the table below.

Model	Adjustment procedure
Pinter model	DIAG MODE [FINISHER JOGGER ADJ.] (Finisher jogger position adjustment)
MFP	SIM 3-6(Built-in finisher jogger position adjustment)



B. Printer model adjustment procedure

1) In the DIAG MODE, select [FINISHER JOGGER ADJ.].

FINISHER JOGGER ADJ.

2) Press [OK] key, and the following display will be shown.
Use [Δ] key and [∇] key to change the adjustments value.
(Adjustment range: 40 - 60)

ADJUST VALUE
50

3) Change the adjustment value and press OK key, and the stopper will be turned on and the finisher joggers F/R will move to and stop at the positions shown in the table below.

Destination	Jogger position
Inch series	LT size alignment position
AB series	A4 size alignment position

4) When the joggers F/R stop, open the door and load A\$/LT paper in the alignment tray, and check the jogger width visually.
5) When the jogger width is too wide or too narrow, use [Δ] key and [∇] key again to change the adjustments value. Press [OK] key to shift the jogger to the A4/LT alignment position, and check visually.

The table below shows relationship between the adjustment value and the jogger width.

Adjustment value	Jogger width
Decreased by 1.	Increased by about 0.375mm.
Increased by 1.	Decreased by about 0.375mm

6) After completion of the adjustment, remove the paper from the alignment tray and terminate the DIAG MODE.

C. MFP adjustment procedure

1) When the sub code of the simulation is entered, the following display is shown.

SIMULATION 3-6
FINISHER JOGGER ADJUSTMENT.INPUT VALUE 40-60,AND PRESS START.
50

SIM 3-6: Jogger position adjustment

2) Enter the adjustment value with [0] - [9] keys and press START key, and the menu below will be displayed. (Adjustment range: 40 - 60)

SIMULATION 3-6
FINISHER JOGGER ADJUSTMENT.MOVING...
50

SIM 3-6: Jogger moving

When the stopper is turned on, and finisher joggers F/R move to and stop at the positions shown in the table below.

Destination	Jogger position
Inch series	LT size alignment position
AB series	A4 size alignment position

3) When the joggers F/R stop, open the door and load A4/LT paper in the alignment tray, and check the jogger width visually.
4) When the jogger width is too wide or too narrow, use [0] - [9] key again to change the adjustments value. Press [START] key to shift the jogger to the A4/LT alignment position, and check visually.

The table below shows relationship between the adjustment value and the jogger width.

Adjustment value	Jogger width
Decreased by 1.	Increased by about 0.375mm.
Increased by 1.	Decreased by about 0.375mm

5) After completion of the adjustment, remove the paper from the alignment tray and terminate the simulation.

[9] DISASSEMBLY AND ASSEMBLY, MAINTENANCE

1. Maintenance System Table

× Check (Clean, replace, or adjust as necessary.) ○ Clean ▲ Replace △ Adjust ☆ Lubricate □ Move position

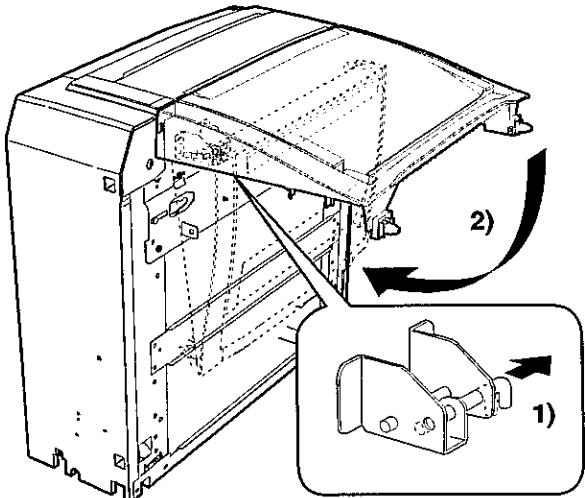
Unit name	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Transport section	Transport rollers	○		○		○		○		○	
	De-curler roller	(○)×	×	○	×	○	×	○	×	○	
	Transport paper guides	○		○		○		○		○	
Drive section	Gears	☆		☆		☆		☆		☆	(Specified position)
	Belts							×			
Other	Sensors	×		×		×		×		×	
	Discharge brush	×		×		×		×		×	
Staple unit											Replace UN at 100K staple.
Staple cartridge											User replacement for every 3000pcs.

2. Disassembly and assembly

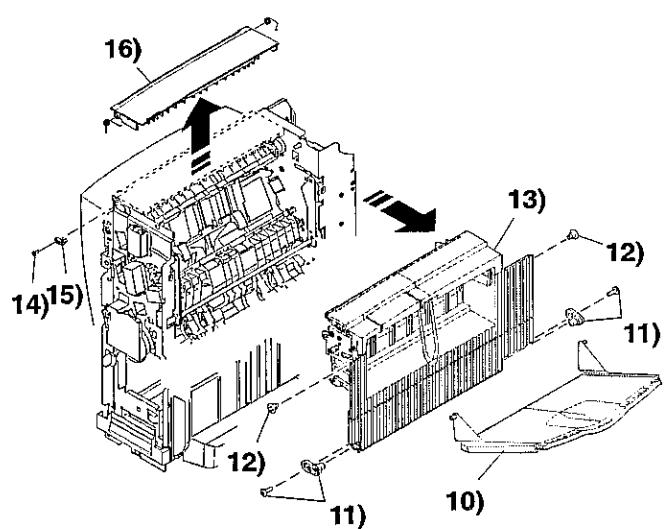
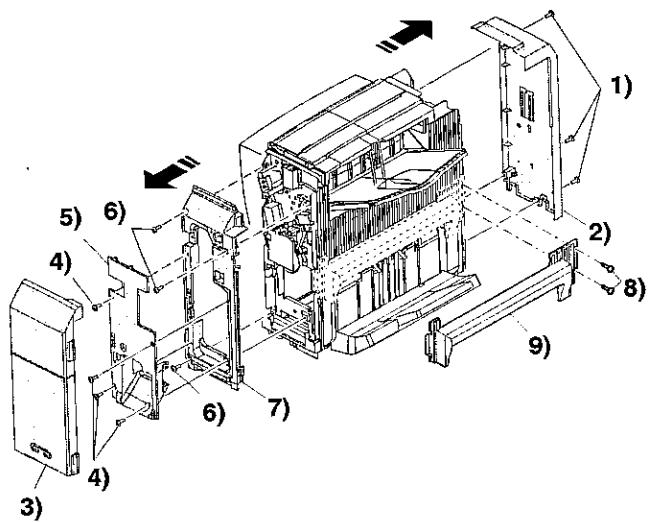
A. Unit transit

Note: When carrying the finisher unit removed from the printer, fold the transport unit as described below.

If not, the frame may be bent, causing a breakdown of the machine.

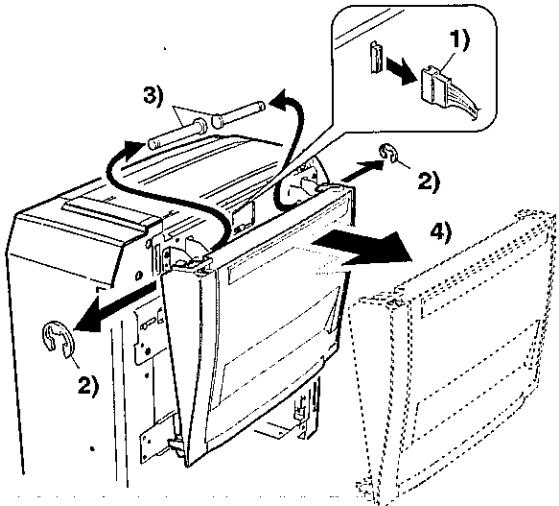


B. External cabinet

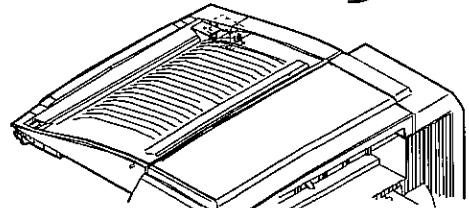
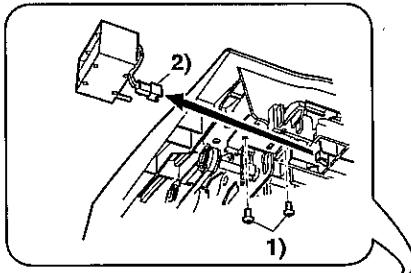


C. Transport unit

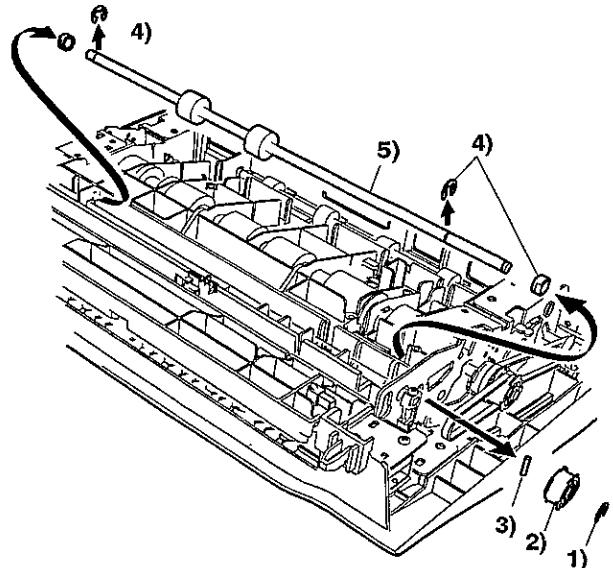
No.	Parts name	Job item	cycle
1	Transport rollers	Clean	100K
2	De-curler roller	Check	50K
			Clean 100K
3	Transport paper guide	Clean	100K



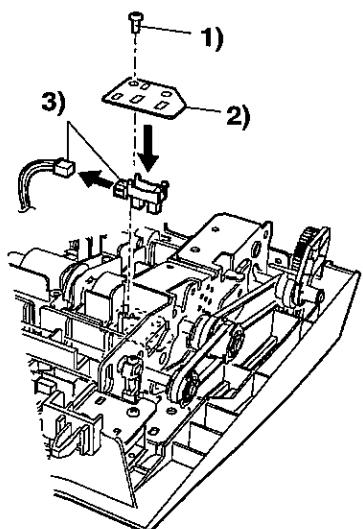
(1) Gate solenoid



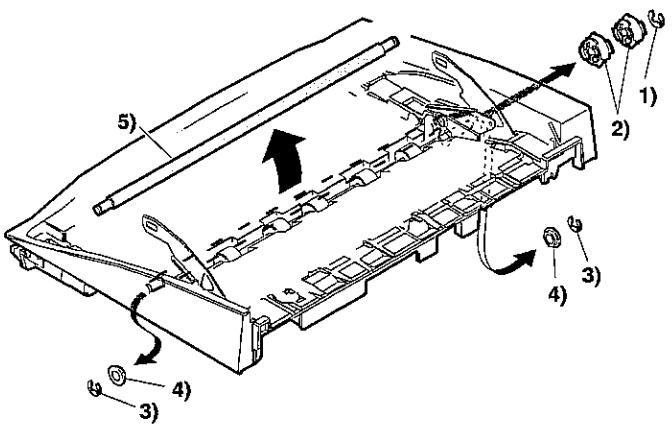
(2) Transport roller



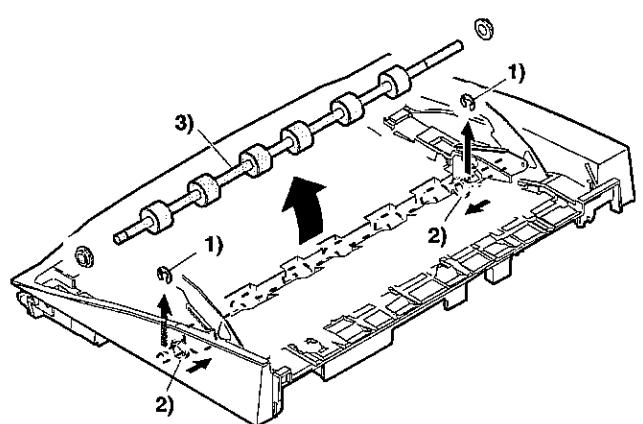
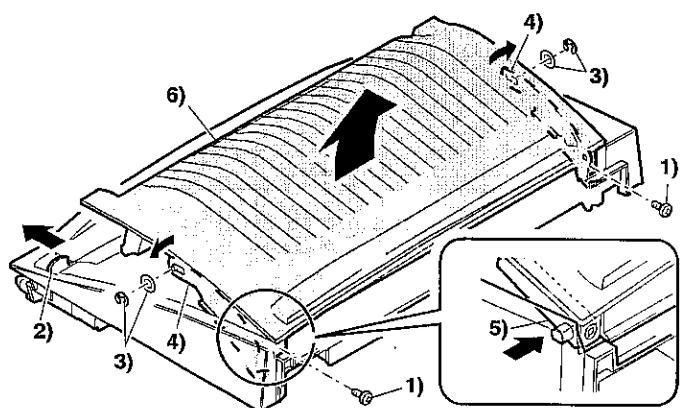
(3) Upper open/close sensor



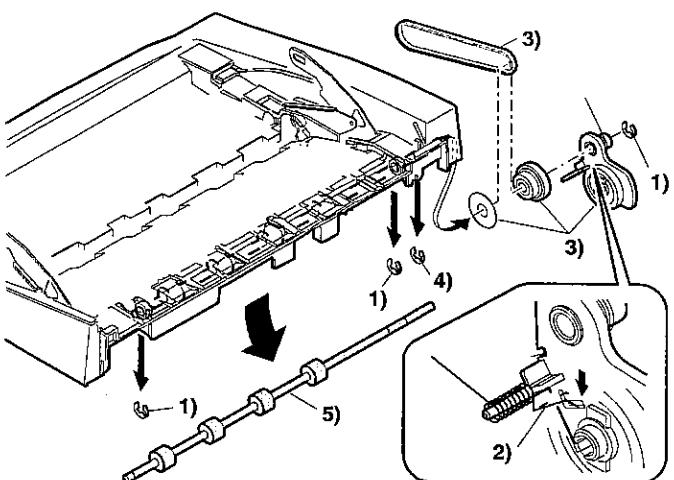
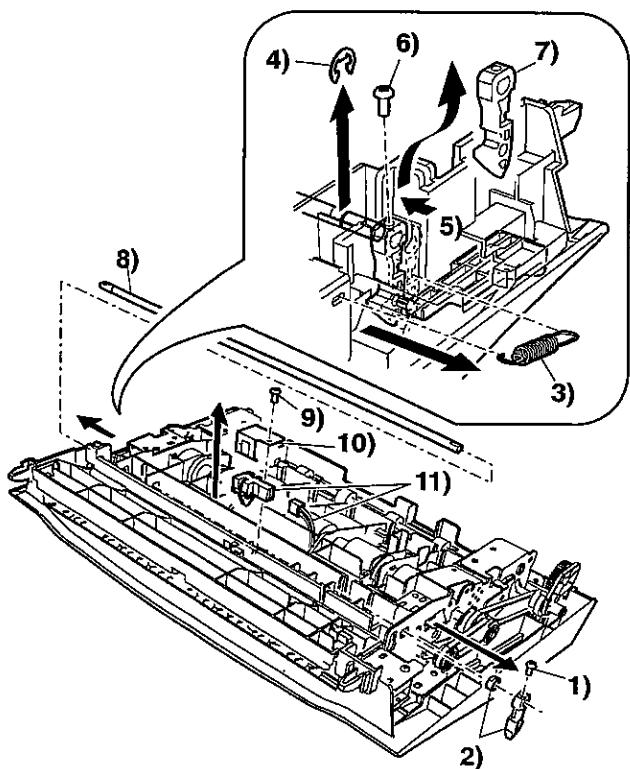
(6) De-curler roller



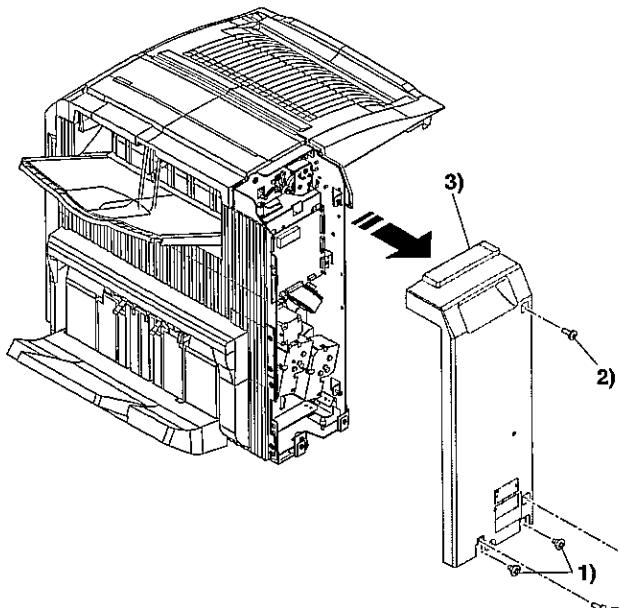
(4) Upper cover



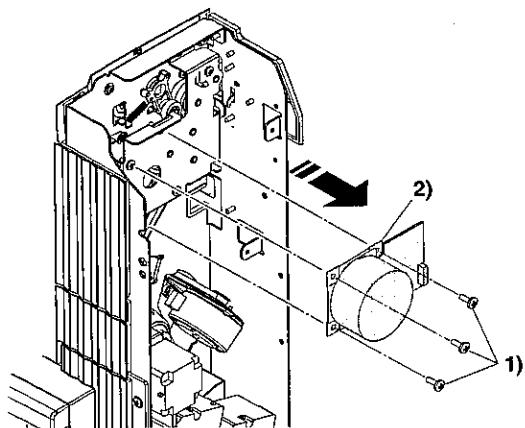
(5) Paper entry sensor



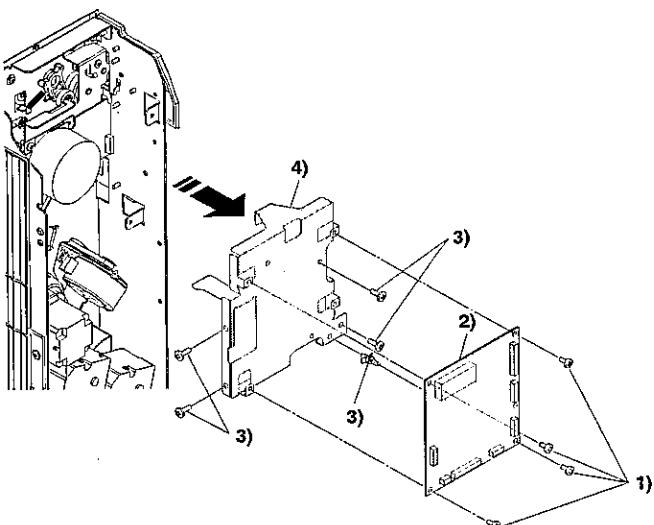
D. Rear side of the unit



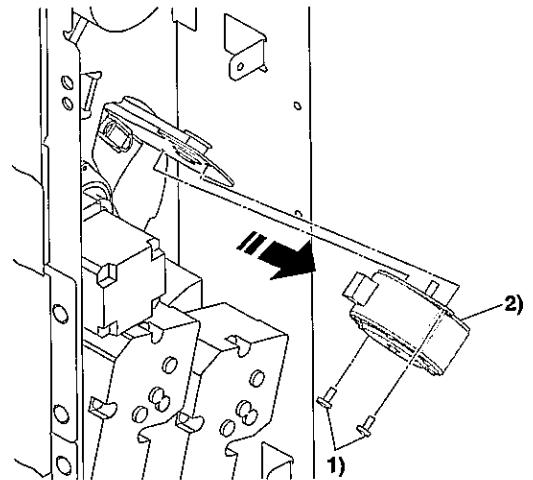
(1) Main motor



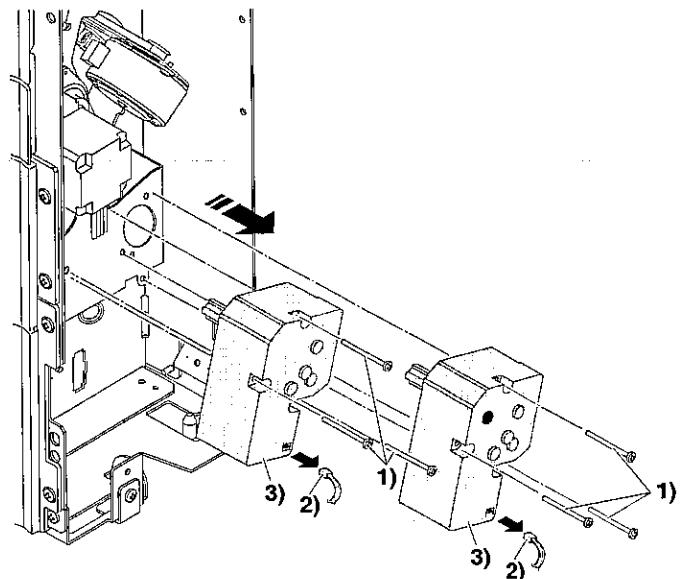
(2) Main control PWB



(3) Staple shift motor

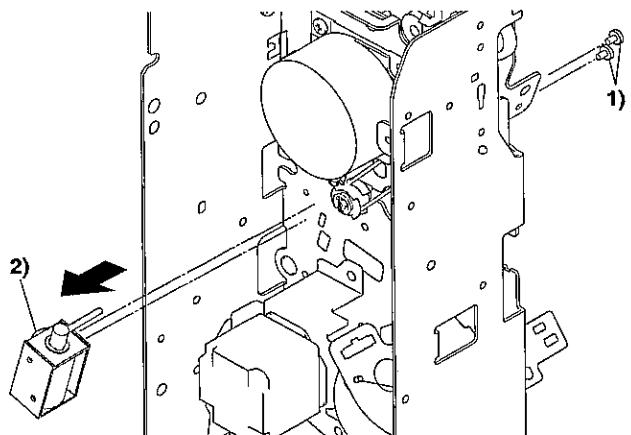


(4) Elevator motor / Staple rotation motor



* A red seal is attached to the staple rotating motor.

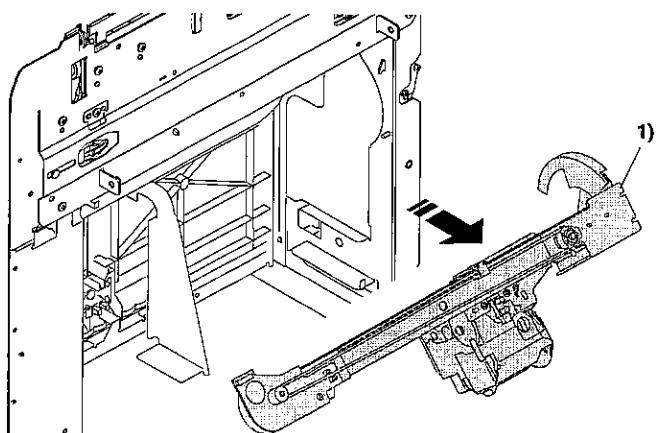
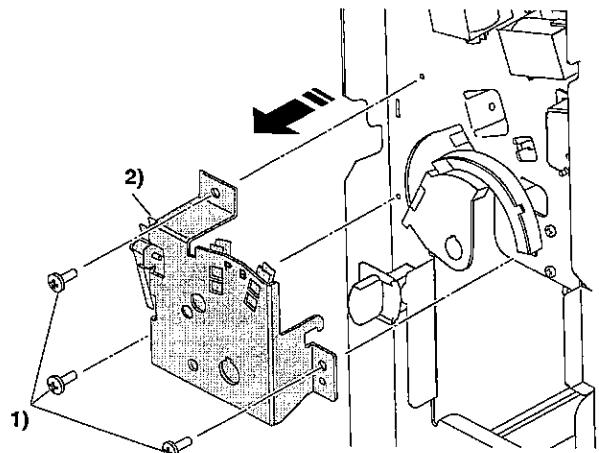
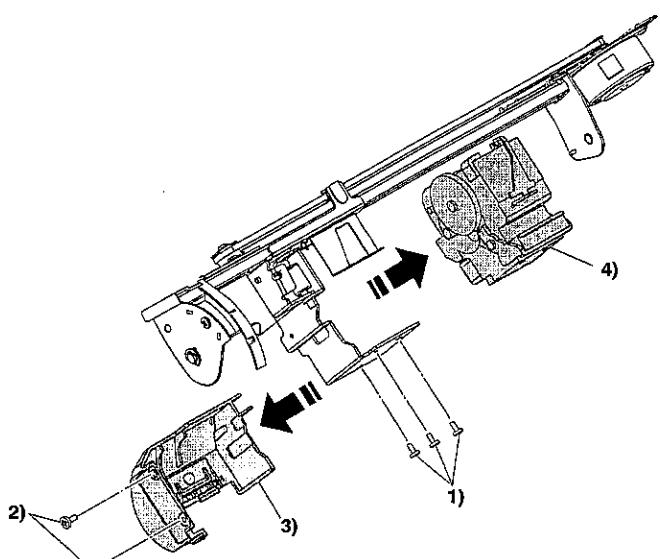
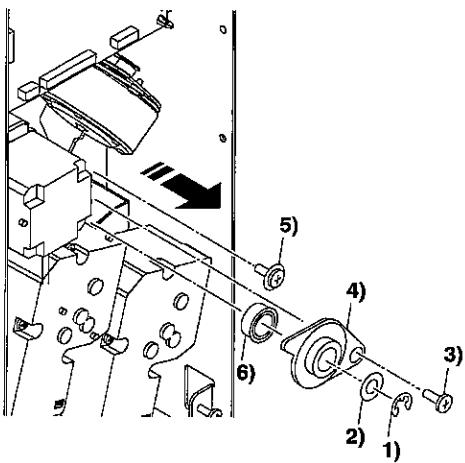
(5) Pressure-release solenoid



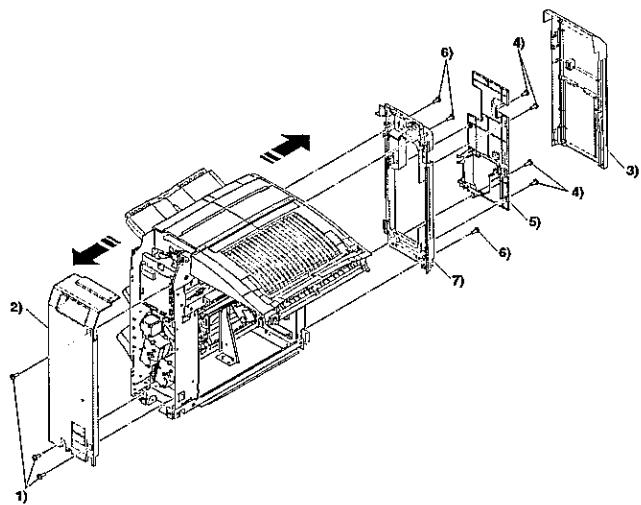
E. Stapler

(1) Stapler unit

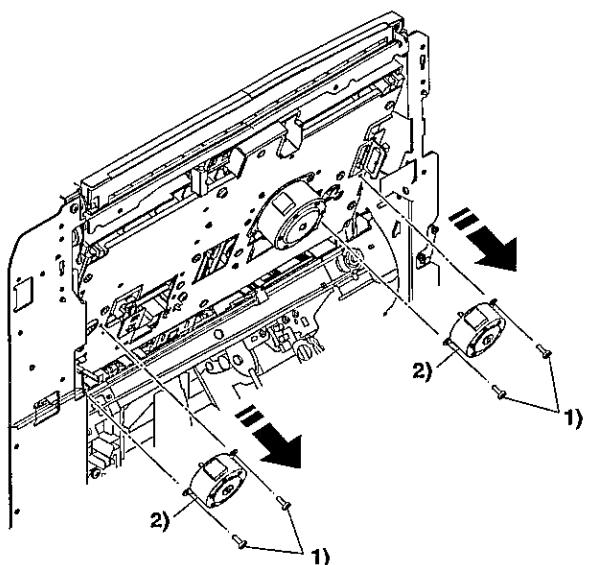
No.	Parts name	Job item	cycle
1	Staple UN	Replace	100K staple
2	Staple cartridge	User replacement	3000pc.



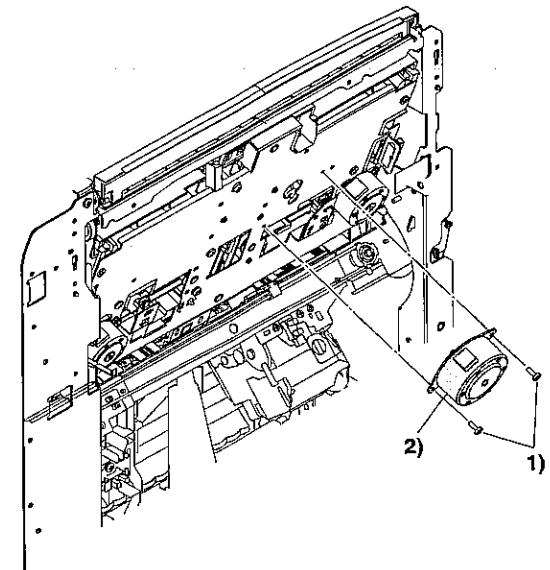
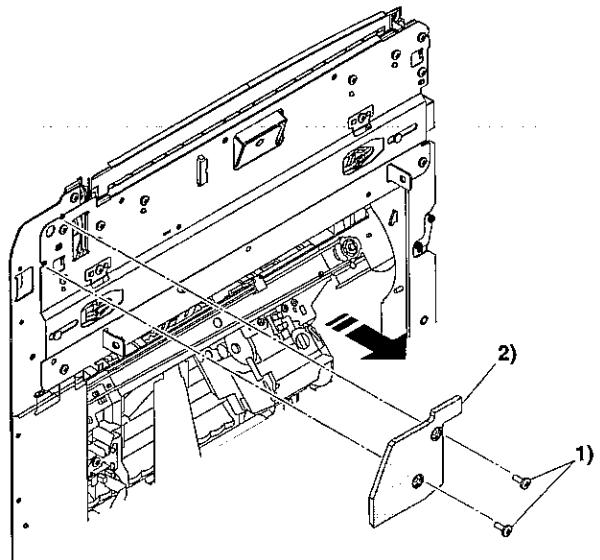
F. Inside of the unit



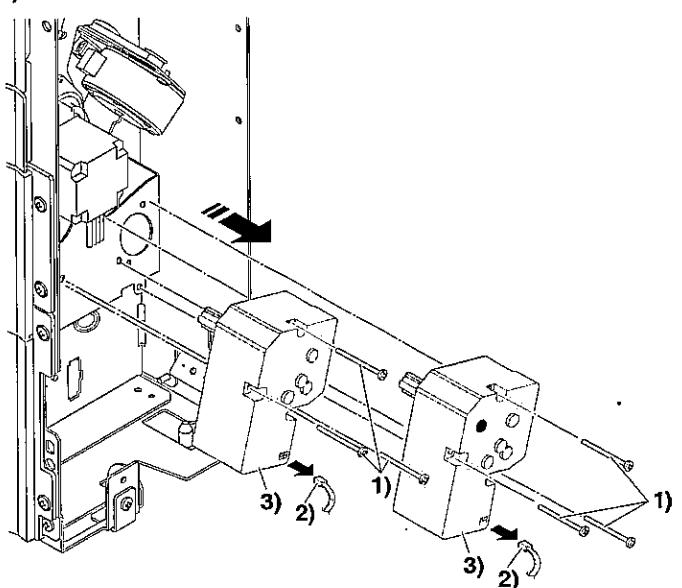
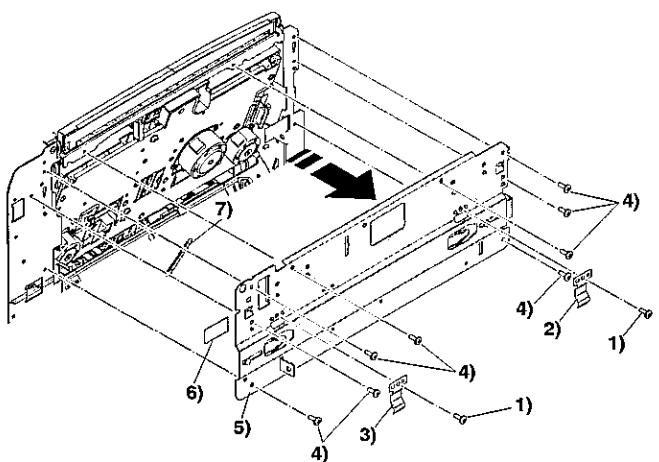
(1) Jogger motor



(2) Pusher motor



(3) Elevator unit

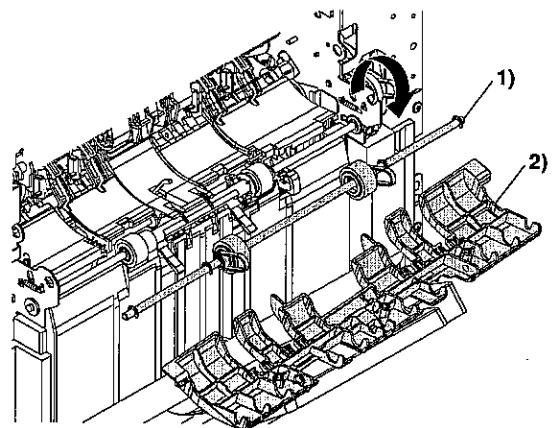
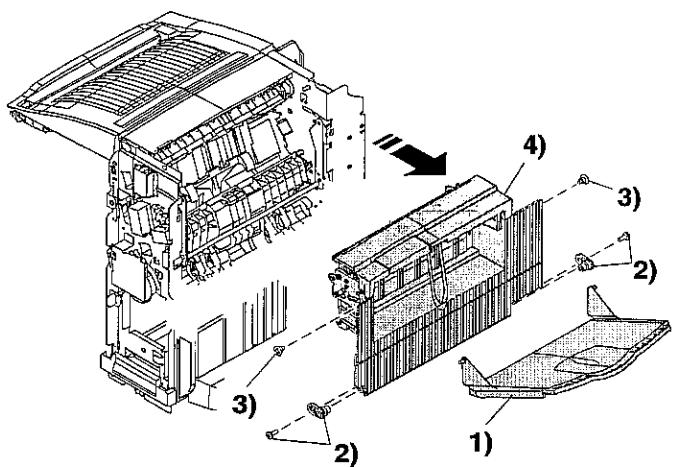
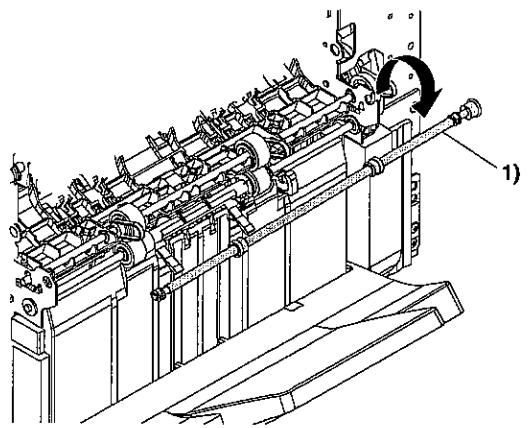
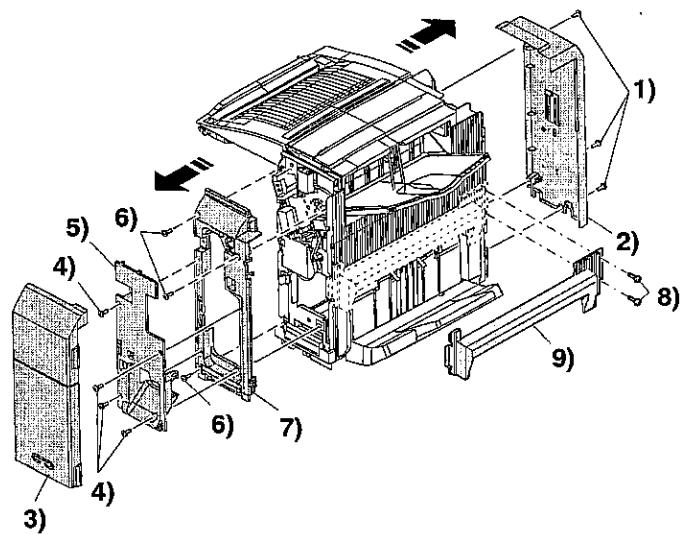


G. Right side of the unit (Paper exit side)

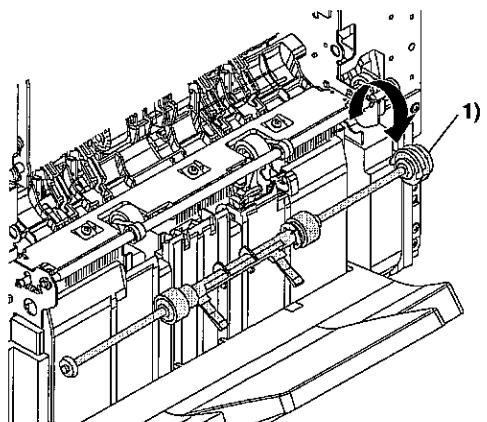
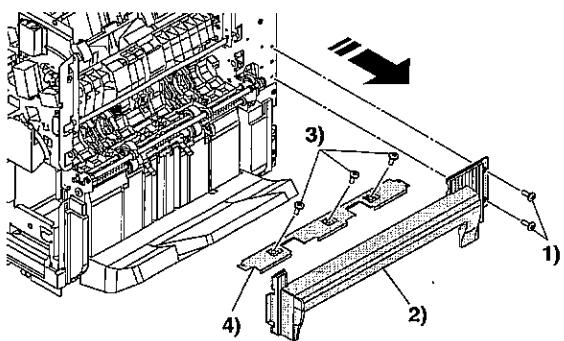
(2) Lower stage tray paper exit roller

No.	Parts name	Job item	cycle
1	Transport roller	clear	100K

(1) External cabinet

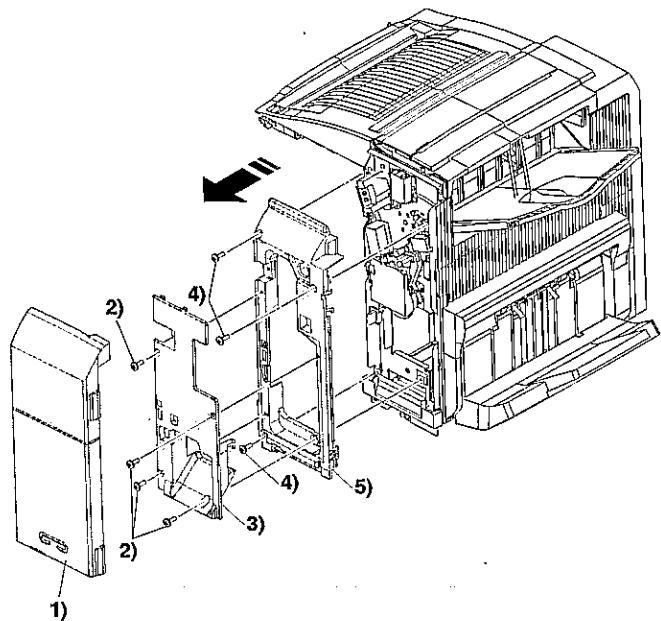


(3) Paper exit paddler

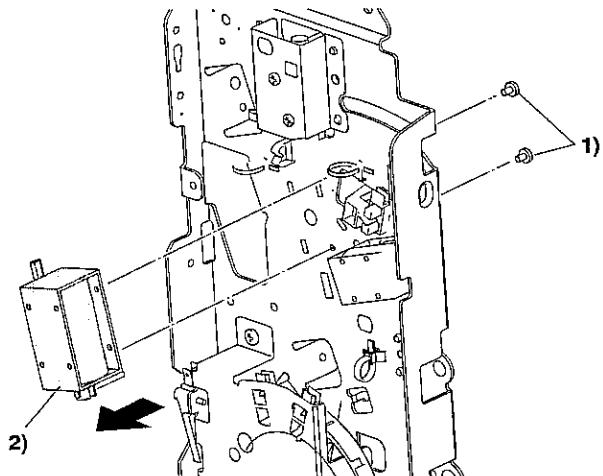


H. Front side of the unit

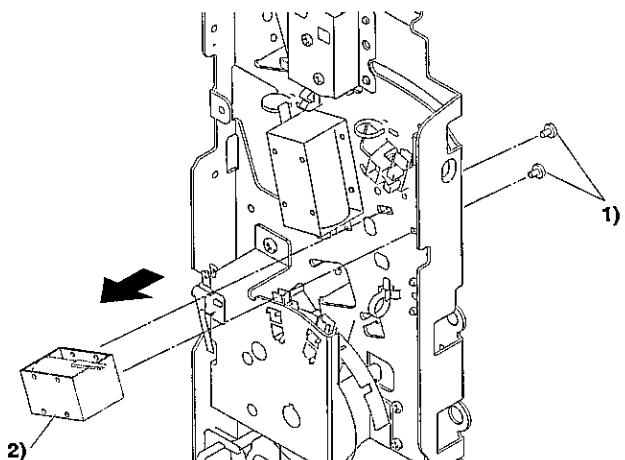
No.	Parts name	Job item	cycle
1	Paper guide	clean	100K



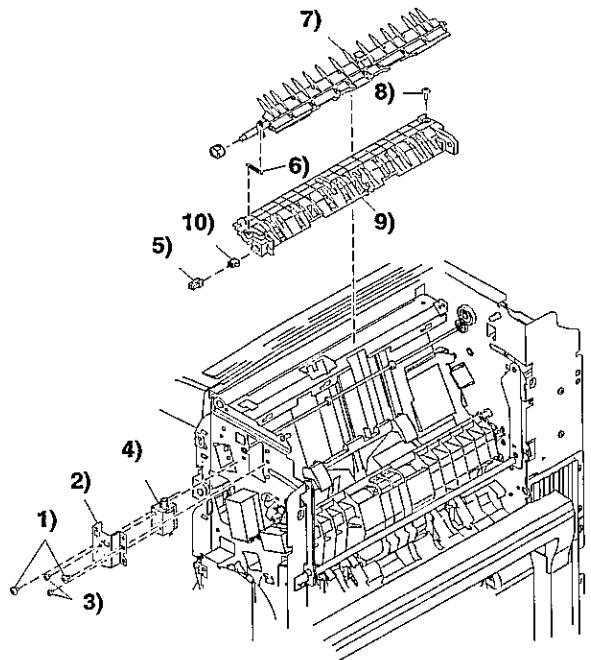
(1) Stopper solenoid



(2) Paper holding solenoid

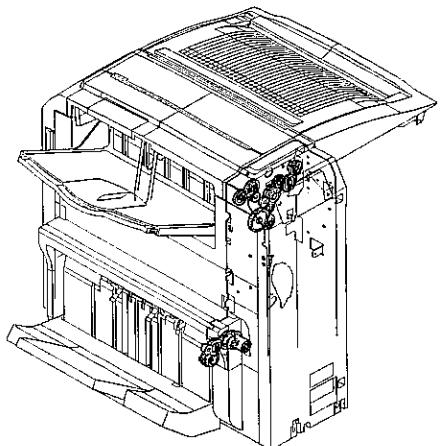


(3) Compiler paper entry gate solenoid



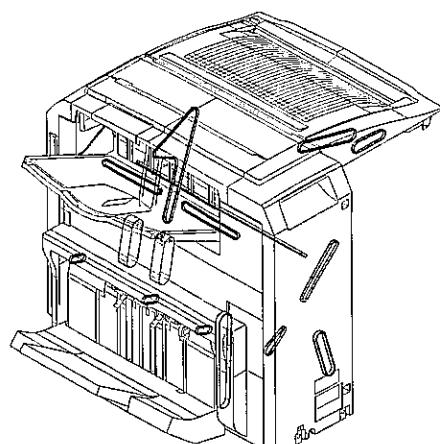
I. Gears, Clutch

No.	Parts name	Job item	cycle
1	Gears	Lubricate	100K



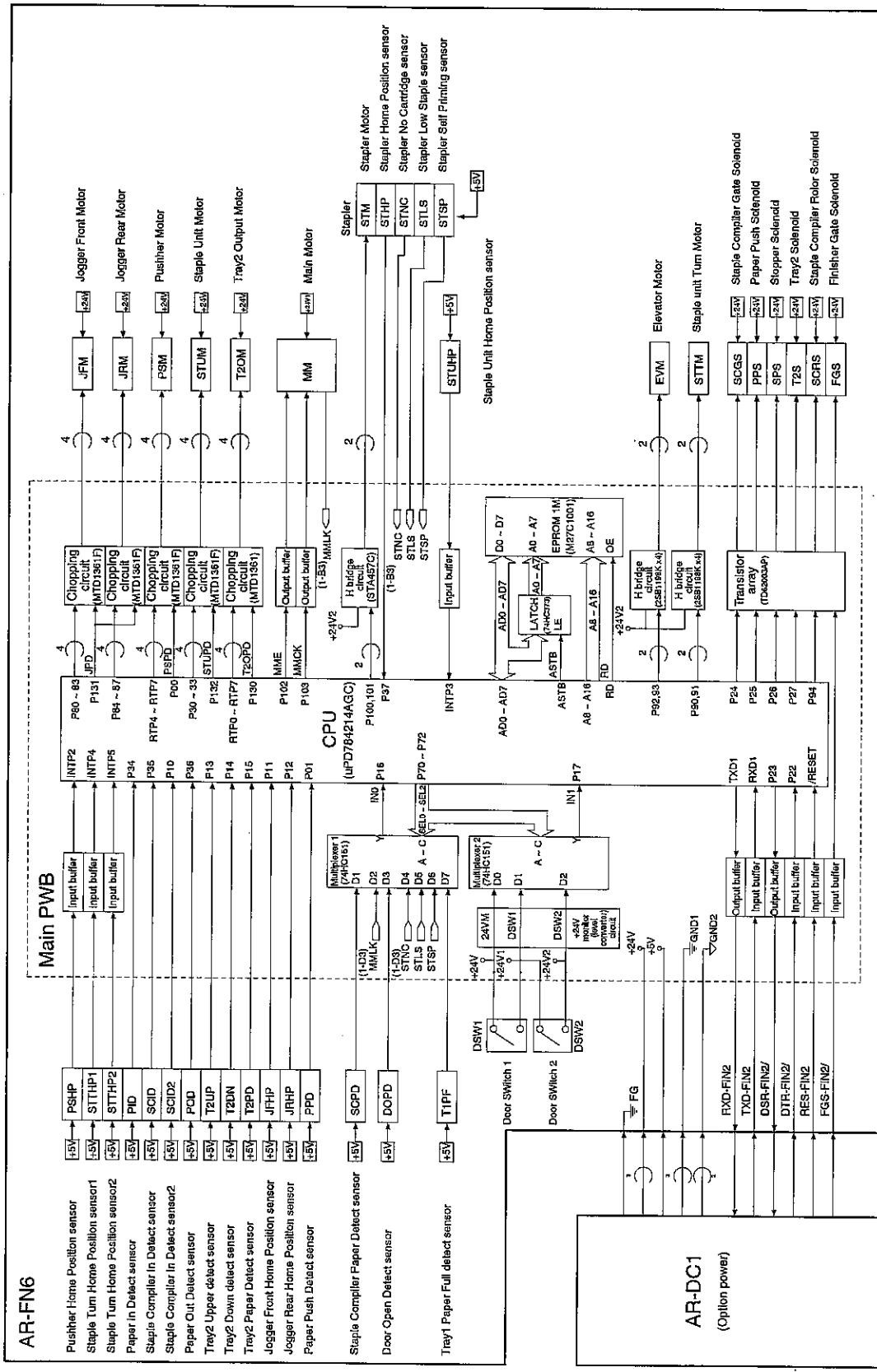
J. Belts

No.	Parts name	Job item	cycle
1	Belts	clear	300K



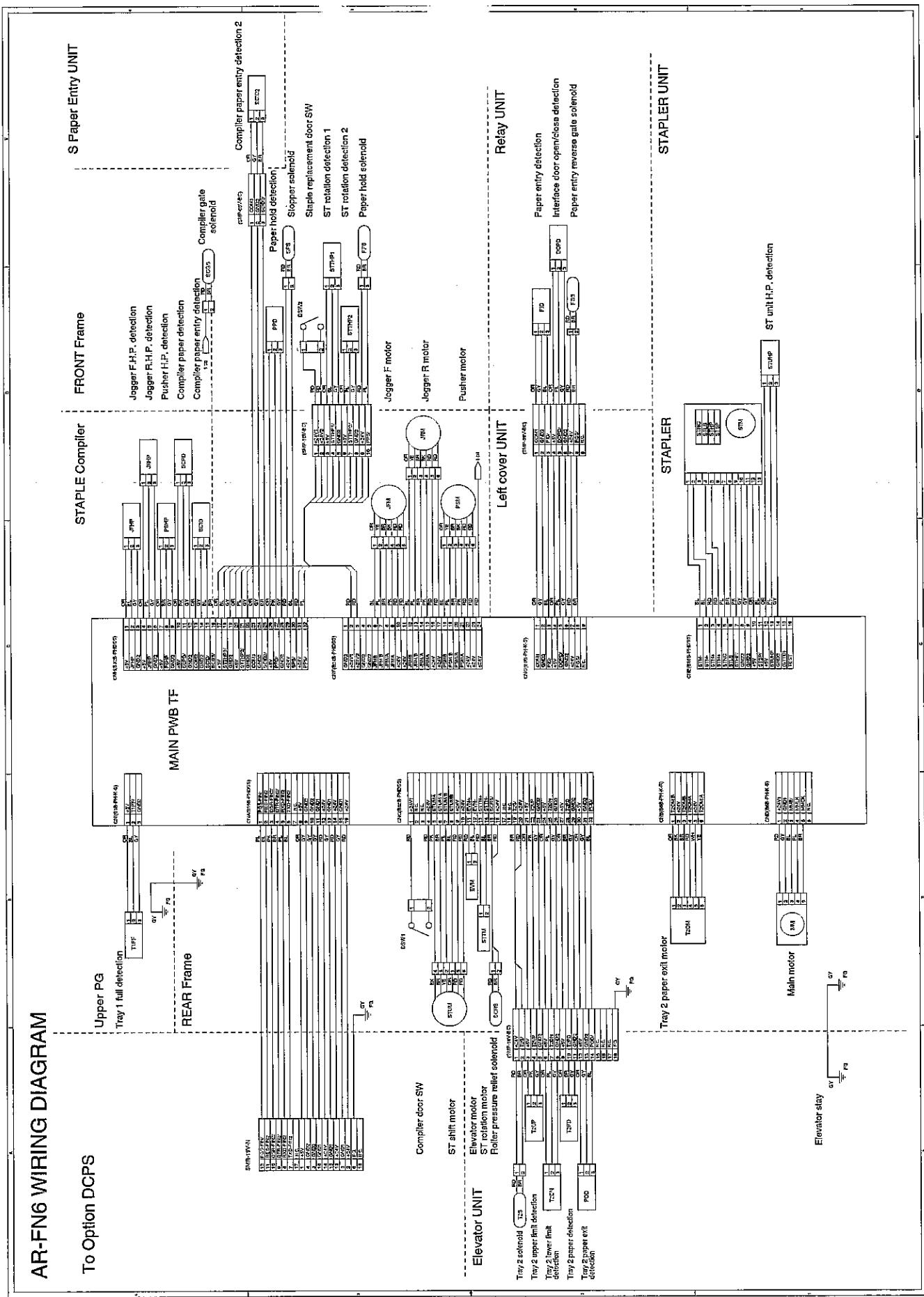
[10] BLOCK DIAGRAM, WIRING DIAGRAM

1. Block Diagram

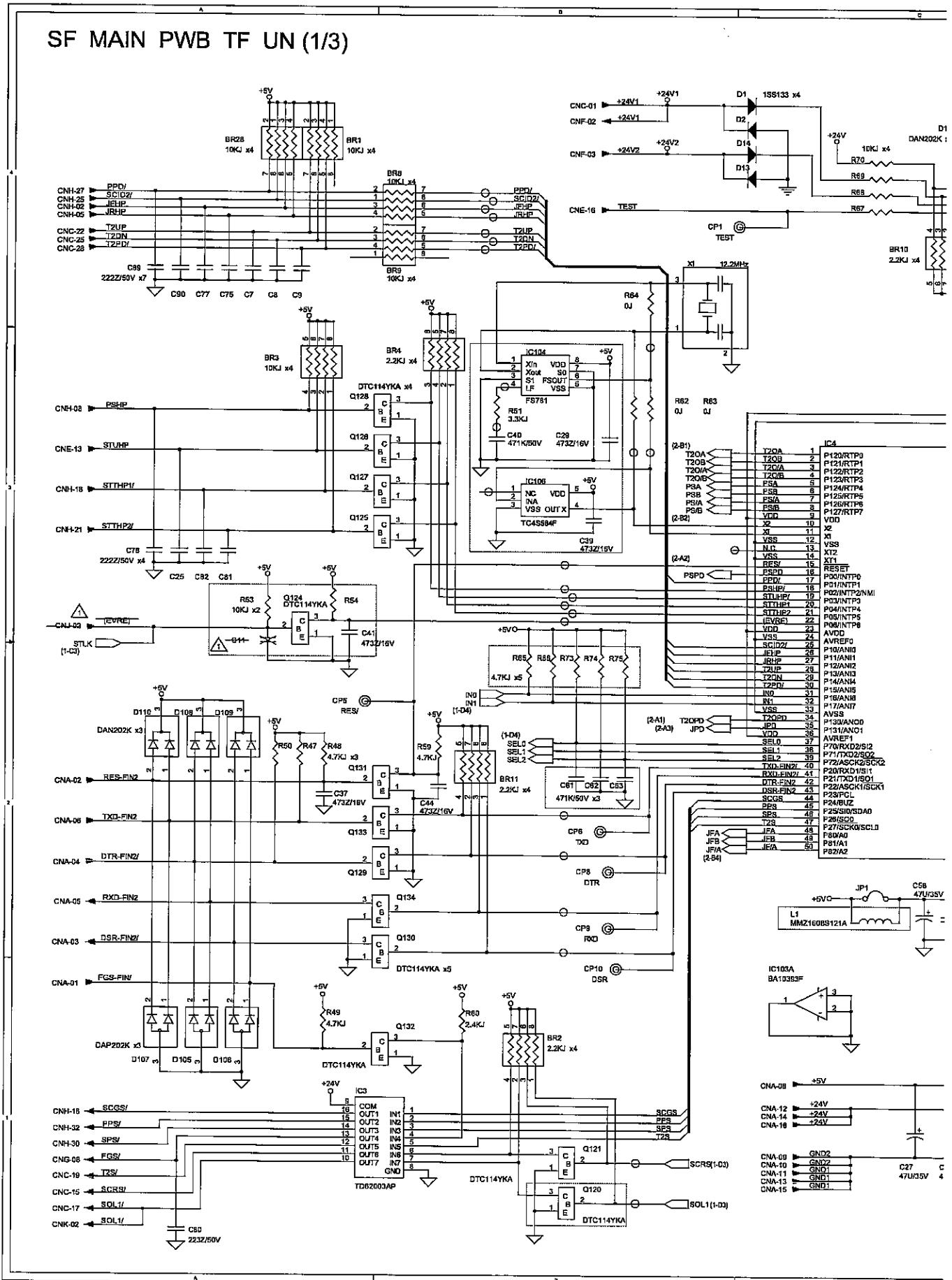


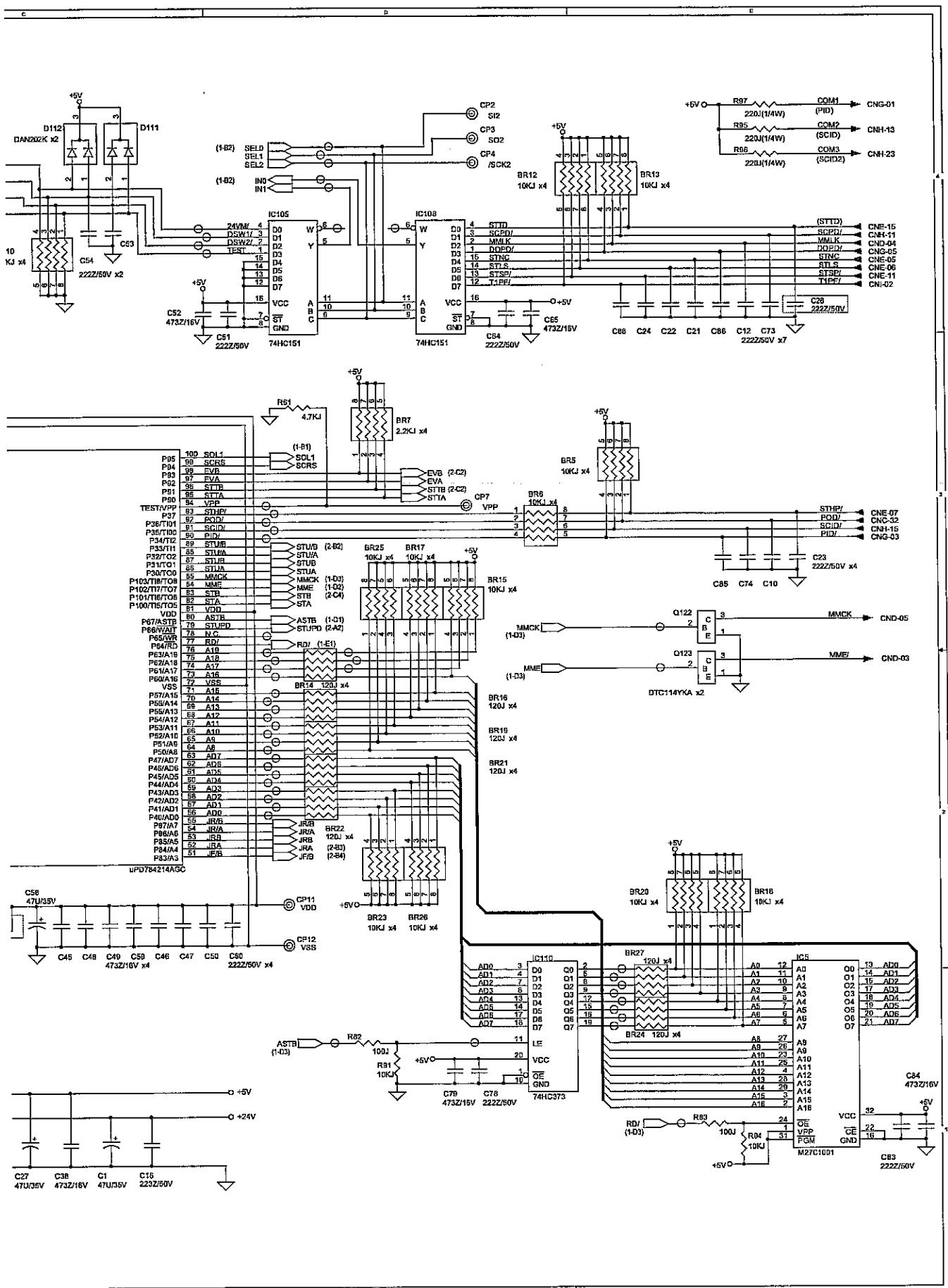
AR-FN6 BLOCK DIAGRAM, WIRING DIAGRAM 10-1

2. Wiring Diagram



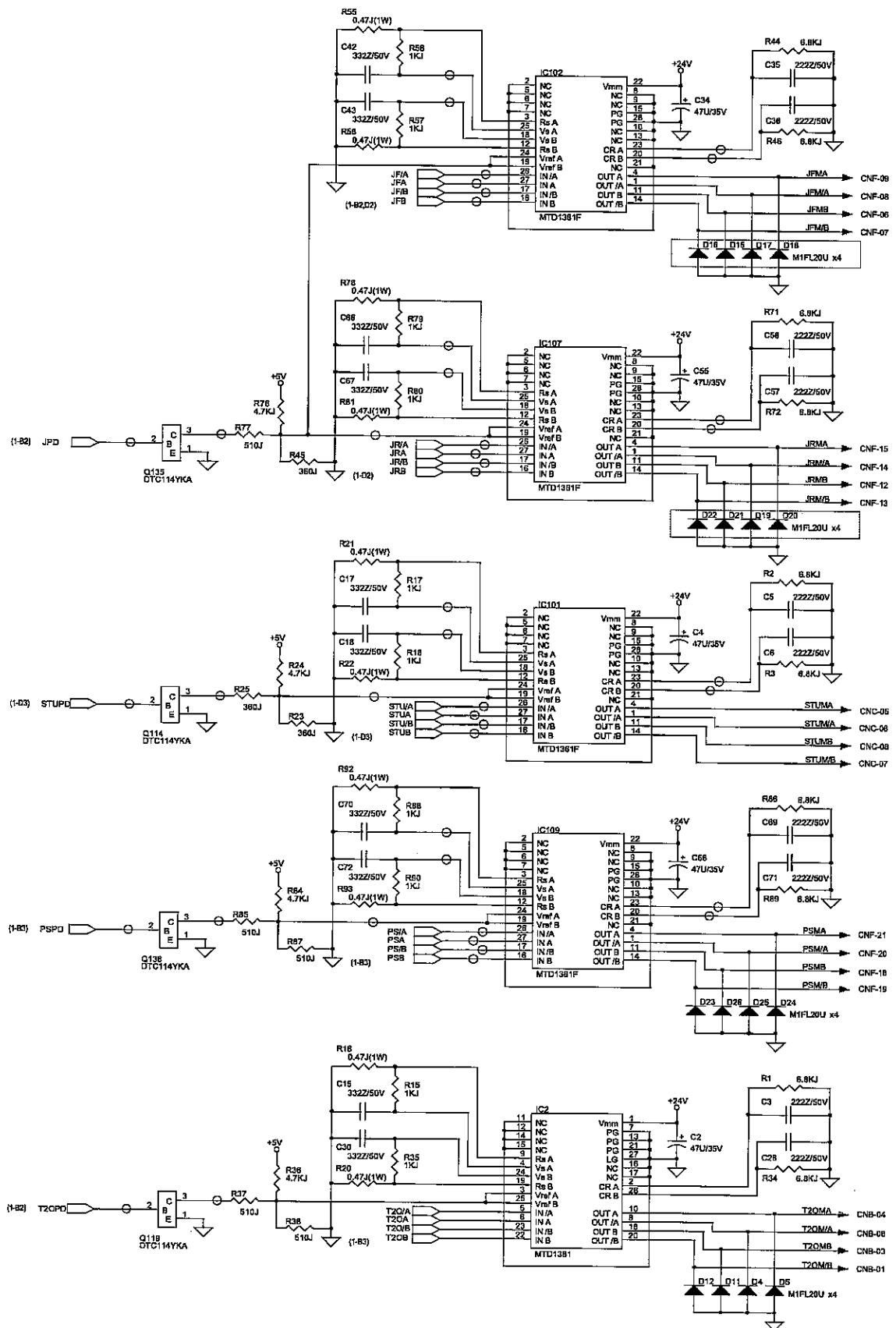
3. Circuit Diagram

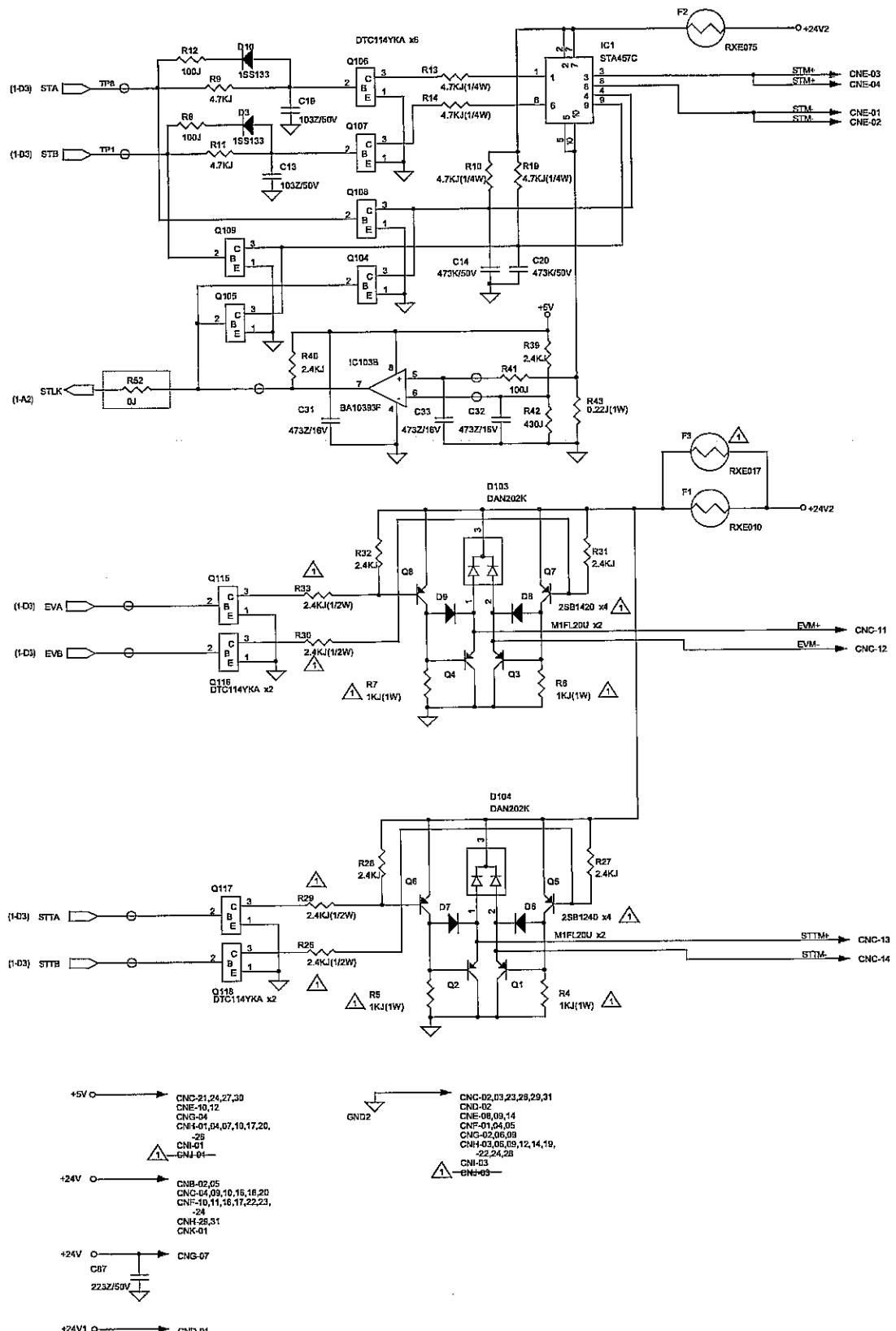




AR-FN6 BLOCK DIAGRAM, WIRING DIAGRAM 10-4

SF MAIN PWB TF UN (2/3)





AR-FN6 BLOCK DIAGRAM, WIRING DIAGRAM 10-6

SF MAIN PWB TF UN (3/3)

CNA (S16B-PHDSS)

NO	SIGNAL	
01	FGS-FIN/	UART
02	RES-FIN2	
03	DSR-FIN2/	
04	DTR-FIN2/	
05	RXD-FIN2	
06	TXD-FIN2	
07	N.C.	
08	+5V	POWER
09	GND2	
10	GND2	
11	GND1	
12	+24V	
13	GND1	
14	+24V	
15	GND1	
16	+24V	

CNB (B6B-PH-K-R)

NO	SIGNAL	
01	T20MB	T20M
02	+24V	
03	T20MB	
04	T20MA	
05	+24V	
06	T20M/A	

CNF (B24B-PHDSS)

NO	SIGNAL	
01	GND2	DSW2
02	+24V1	
03	+24V2	
04	GND2	
05	GND2	
06	JFMB	
07	JFM/B	JFM
08	JFM/A	
09	JFMA	
10	+24V	
11	+24V	
12	JRMB	
13	JRM/B	JRM
14	JRM/A	
15	JRMA	
16	+24V	
17	+24V	
18	PSMB	
19	PSM/B	PSM
20	PSM/A	
21	PSMA	
22	+24V	
23	+24V	
24	+24V	SCGS

CNC (S32B-PHDSS)

NO	SIGNAL	
01	+24V1	DSW1
02	GND2	
03	GND2	
04	+24V	
05	STUMA	
06	STUM/A	
07	STUM/B	
08	STUMB	STUM
09	+24V	
10	+24V	
11	EVM+	
12	EVM-	EVM
13	STTM+	
14	STTM-	
15	SCRS/	SCRS
16	+24V	
17	SOL1/	
18	+24V	T2S
19	T2S/	
20	+24V	
21	+5V	T2UP
22	T2UP	
23	GND2	
24	+5V	T2DN
25	T2DN	
26	GND2	
27	+5V	T2PD
28	T2PD/	
29	GND2	
30	+5V	POD
31	GND2	
32	POD/	

CNE (B16B-PHDSS)

NO	SIGNAL	
01	STM-	STAPLER STUHP
02	STM-	
03	STM+	
04	STM+	
05	STNC	
06	STLS	
07	STHP/	
08	GND2	
09	GND2	
10	+5V	
11	STSP/	
12	+5V	
13	STUHP	
14	GND2	
15	(STTD)	(STTD)
16	TEST	for CHECK

CNG (B9B-PH-K-S)

NO	SIGNAL	
01	COM1	PID
02	GND2	
03	PID/	
04	+5V	
05	DOPD/	
06	GND2	
07	+24V	DOPD
08	FGS/	
09	GND2	

CNI

NC
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CNI

NC
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02
03

CNH (B32B-PHDSS)

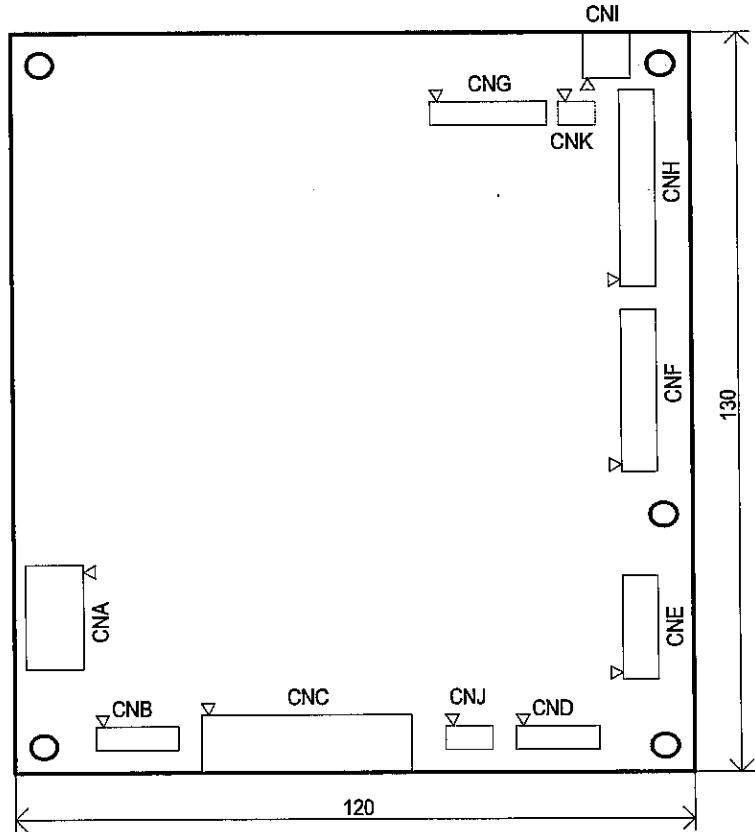
NO	SIGNAL	
01	+5V	JFHP
02	JFHP	
03	GND2	
04	+5V	JRHP
05	JRHP	
06	GND2	
07	+5V	PSHP
08	PSHP	
09	GND2	
10	+5V	SCPD
11	SCPD/	
12	GND2	
13	COM2	SCID
14	GND2	
15	SCID/	
16	SCGS/	SCGS
17	+5V	
18	STTHP1/	
19	GND2	STTHP1
20	+5V	
21	STTHP2/	
22	GND2	STTHP2
23	COM3	
24	GND2	
25	SCID2/	SCID2
26	+5V	
27	PPD/	PPD
28	GND2	
29	+24V	
30	SPS/	SPS
31	+24V	
32	PPS/	

CNI (S3B-PH-K-S)

NO	SIGNAL	
01	+5V	T1PF
02	T1PF/	
03	GND2	

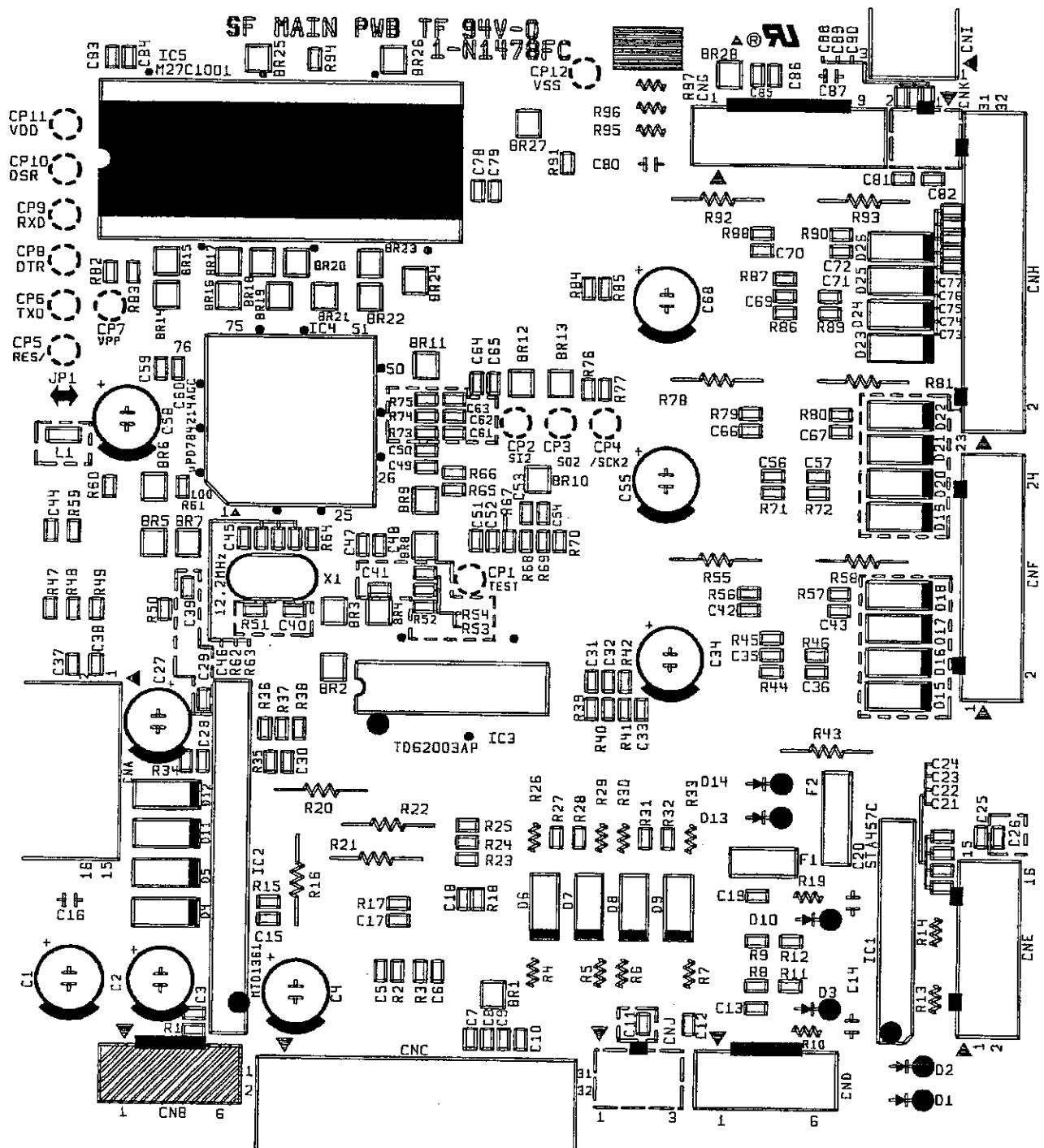
CNK (B2B-PH-K-S)

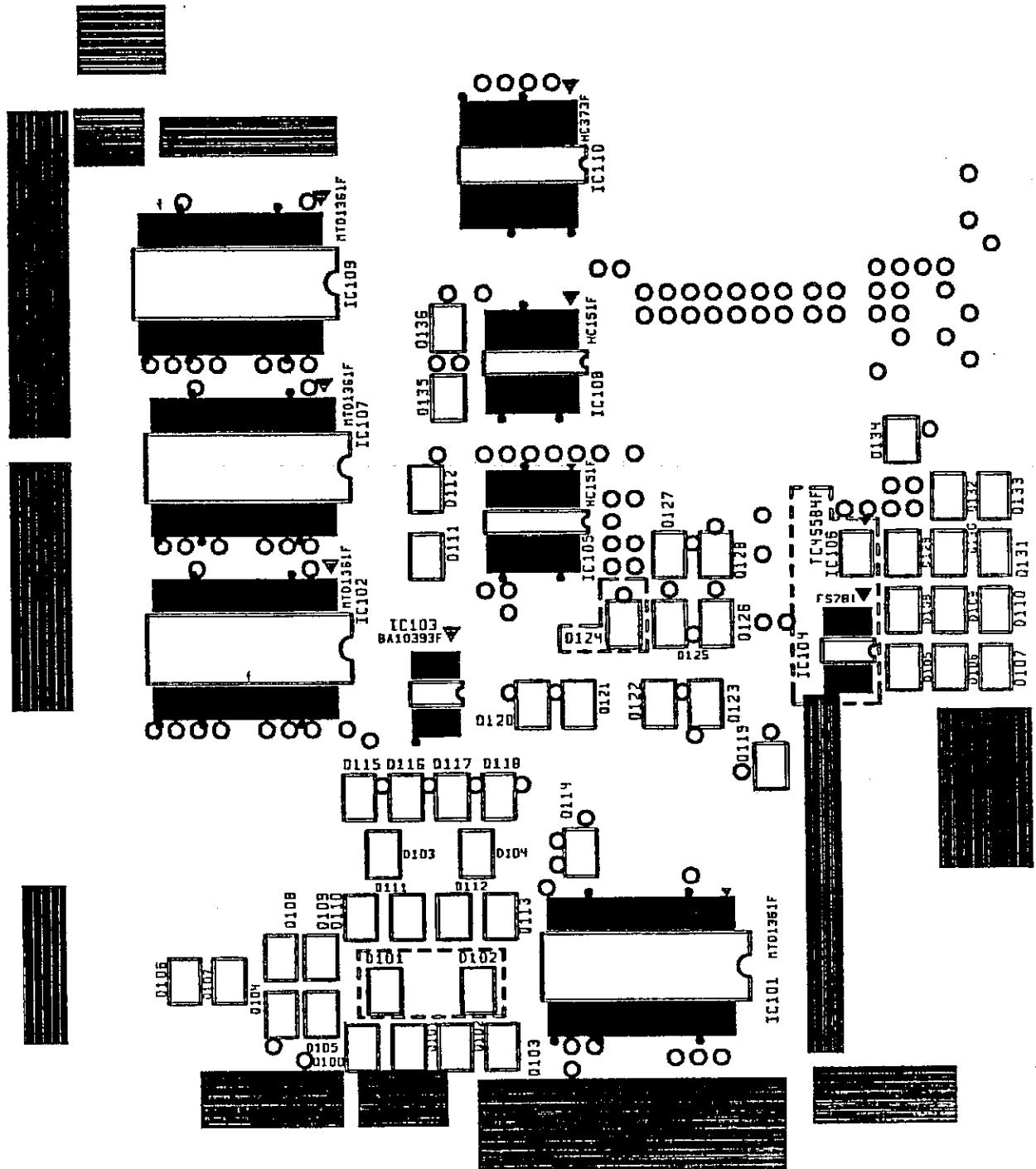
NO	SIGNAL	
01	+24V	
02	SOL1/	(SOL1)



[11] OTHERS

A. SF MAIN PWB TF UN





CAUTION FOR BATTERY REPLACEMENT

(Danish)

ADVARSEL !

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

(English)

Caution !

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish)

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French)

ATTENTION

Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish)

WARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German)

Achtung

Explosionsgefahr bei Verwendung inkorrekt Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA,CANADA)

Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

SHARP

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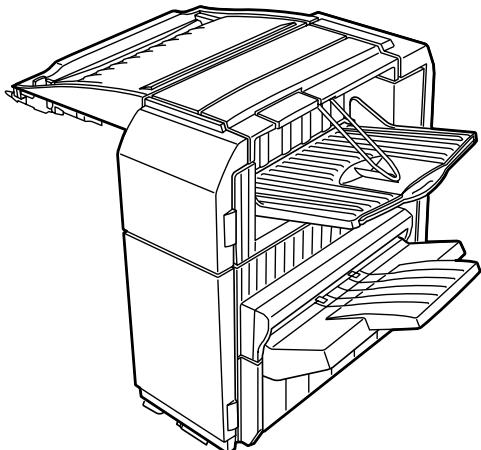
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SHARP PARTS GUIDE

CODE:00ZARFN6//P1/

AR-FN6



レーザープリンタ オプション フィニッシャー

LASER PRINTER OPTIONS FINISHER

MODEL AR-FN6

このパーツガイドに掲載されている表示価格ランクは消費税抜きです。

CONTENTS

- 1 外装部 (Exteriors)
- 2 中継ユニット (Interface unit)
- 3 ステイユニット (Stay unit)
- 4 排紙ユニット (Delivery unit)
- 5 梱包材 & 付属品 (Packing material & Accessories)
 - 索引 (Index)

補修部品のランク付

市場における補修部品の在庫管理が、適正に運営出来る手助けとなることを、目的とします。

Aランク：取替頻度が比較的多く、在庫を必要とするパーツ。

Bランク：取替頻度は比較的少ないが、在庫を必要とするパーツ。

Cランク：取替頻度はほとんどないと思われるパーツ。

Dランク：取替頻度はほとんどないが新品再生に必要なパーツ。

Eランク：ユニットパーツ。サービス効率アップの為、在庫する事を推奨するパーツ。

Sランク：消耗品

但し、複写機のパーツについては、同一パーツ名であっても、下記パーツは、使用箇所の相違により、A・Bランク分けします。

パーツ名：金属製のギヤー、スプロケット、ペアリング、ゴム製のベルト、スプリングクラッチ機構

Aランク：常に回転しているか、付加がかかる箇所に使用され、回転回数が増える事により、変形又は磨耗が生じその性能が発揮できなくなるパーツ。

Bランク：回転部分に使用されているが、磨耗度が比較的少ないパーツ。

DEFINITION

The definition of each Rank is as follows and also noted in the list

A : Parts necessary to be stocked as High usage parts.

B : Parts necessary to be stocked as Standard usage parts.

C : Low usage parts.

D : Parts necessary for refurbish.

E : Unit parts recommended to be stocked for efficient after sales service.

Please note that the lead time for the said parts may be longer than normal parts.

S : Consumable parts.

Please note that the following parts used in Copier under the same description are classified into A or B Rank depending upon the place used.

Example : Gear made of Metal, Sprocket, Bearing, Belt made of Rubber, Spring clutch mechanism.

A Rank : The parts which may be with the revolution or loading.

B Rank : Parts similar to A Rank parts, but are not included in Rank A.

安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。

△印の商品は、安全上重要な部品です。交換をする時は、安全および性能維持のため必ず指定の部品をご使用下さい。

Because parts marked with “△” is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

○ 当モデルのサービス資料には、この資料以外にサービスマニュアル（回路図含む）があります。合わせて御利用下さい。

○ Other than this Parts Guide, please refer to documents Service Manual (including Circuit Diagram) of this model.

○ Please use the 13 digit code described in the right hand corner of front cover of the document, when you place an order.

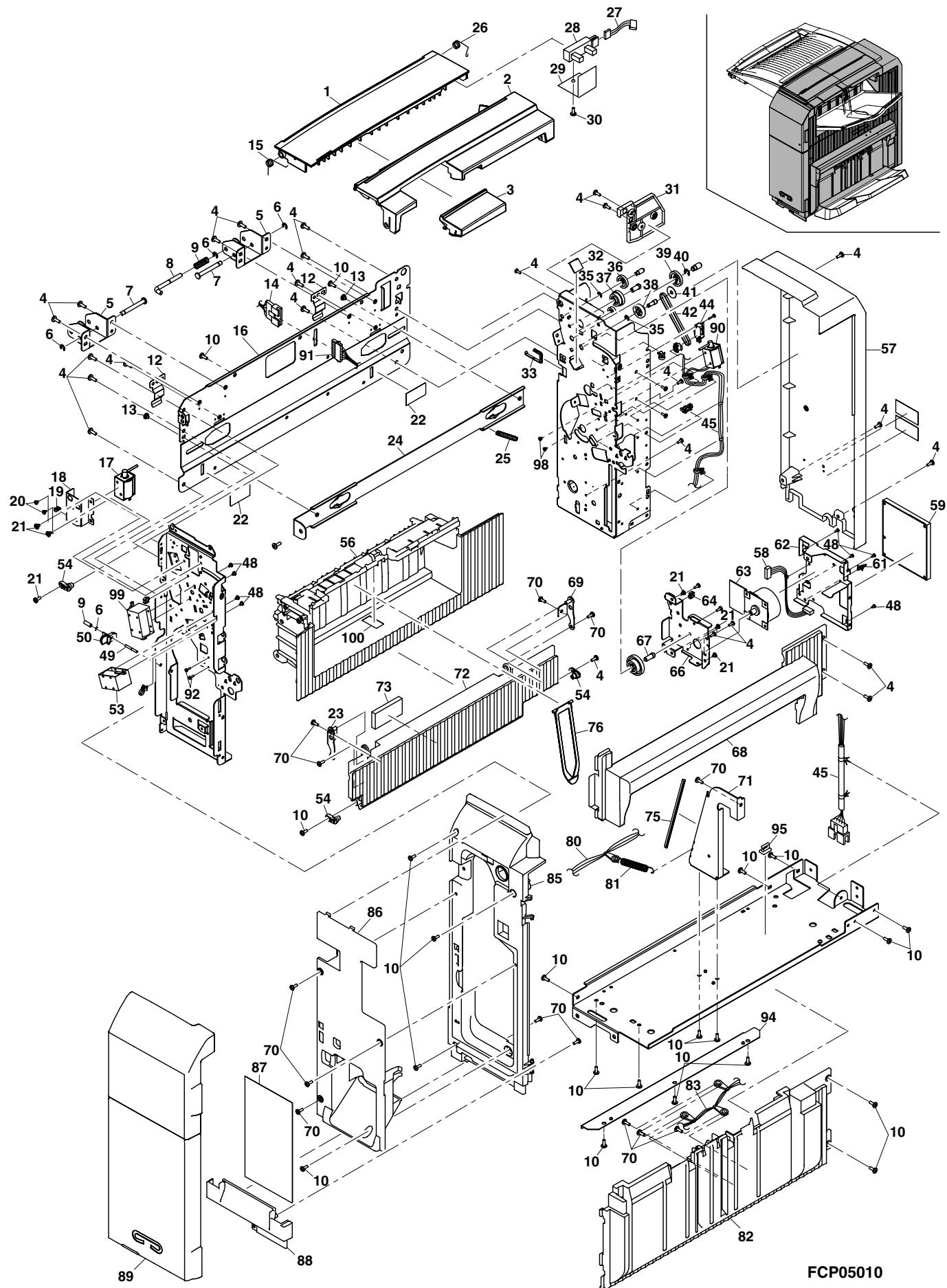
○ For U.S. only-Use order codes provided in advertising literature. Do not order from parts department.

1 外装部(Exteriors)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PG i DM1932FCZ3	BK	HC	N	C	Transport paper guide upper
2	GCAB-0967FCZ2	BE	GN	N	D	Upper cabinet
3	JHNDP0161FCZZ	AV	FG	N	C	SF knob
4	XHBSE40P10000	AA	DD		C	Screw (4x10)
5	LPLTM5860FCZZ	AG	DX	N	C	Interface fixing plate R
6	XRESP40-06000	AA	DD		C	E type ring (E4)
7	NSFTZ2644FCZZ	AF	DS	N	C	Staple rotation shaft
8	NSFTZ2663FCZZ	AH	DX	N	C	Interface lock shaft
9	MSPRD2950FCZZ	AC	DJ	N	C	ST lock spring
10	XHBSE40P10000	AA	DD		C	Screw (4x10)
12	MSPRP2976FCZZ	AK	EB	N	C	Body earth spring
13	LX-BZ0490FCZZ	AC	DD		C	DV guide screw
14	DHA i -3228FCZZ	AT	EZ	N	C	SF interface unit harness
15	MSPRD2926FCZ1	AE	DS	N	C	Upper open/close kick spring
16	PCOVP1582FCZ1	BK	HC	N	D	Left cover
17	RPLU-0341FCZZ	AW	FG	N	B	Pressure solenoid
18	LPLTM5909FCZZ	AQ	EQ	N	C	SOL fixing plate SFN
19	LHLDW1487FCZZ	AE	DJ	N	C	Mini clump (MWSET2-1-01)
20	XBBSD30P04000	AA	DD		C	Screw (3x4)
21	LX-BZ0930FCZZ	AC	DD	N	C	Screw (4x6)
22	PSHEZ4909FCZZ	AB	DJ	N	C	Left cover protect sheet
23	CPLTM5903FC01	AG	DX	N	C	Right cabinet joint plate F
24	LPLTM5858FCZ1	AL	EB	N	C	Body fixing slide plate
25	MSPRT3013FCZZ	AD	DJ	N	C	Slide plate return spring
26	MSPRC3019FCZZ	AE	DJ	N	C	Full sensor earth spring
27	DHA i -3227FCZZ	AH	DX	N	C	SF full detect harness
28	VHPGP1A73A+ -1	AG	DX		B	Photointerrupter Sensor (GP1A73A)
29	LPLTM5923FCZZ	AP	EQ	N	C	Full detection protect plate
30	XEBSD30P08000	AA	DD		C	Screw (3x8)
31	GCAB-0961FCZZ	AY	FQ	N	D	Rear cabinet upper
32	PSHEZ4900FCZZ	AD	DJ	N	C	Paper fixing stopper sheet
33	LBSHC0351FCZZ	AG	DS	N	C	Edge holder
35	XRESP50-06000	AA	DD		C	E type ring (E5)
36	NGERH0209FCZ1	AB	DD		C	Delivery roller gear (24T)
37	NGERH1465FCZZ	AK	DX	N	C	Gear (24T/28T)
38	NGERH1464FCZZ	AK	DX	N	C	Gear (26P/26T)
39	DEUGER0417L//	AF	DS		C	Delivery gear (29T)
40	XRESP70-08000	AA	DD		C	E type ring (E7)
41	PSHEP4896FCZZ	AB	DJ	N	C	Flange myler
42	NBLTH0361FCZZ	AK	EB	N	B	Belt (S2M244)
44	QSW-M0502FCZZ	AH	DX		B	Micro switch

1 外裝部 (Exteriors)

1 外装部(Exteriors)

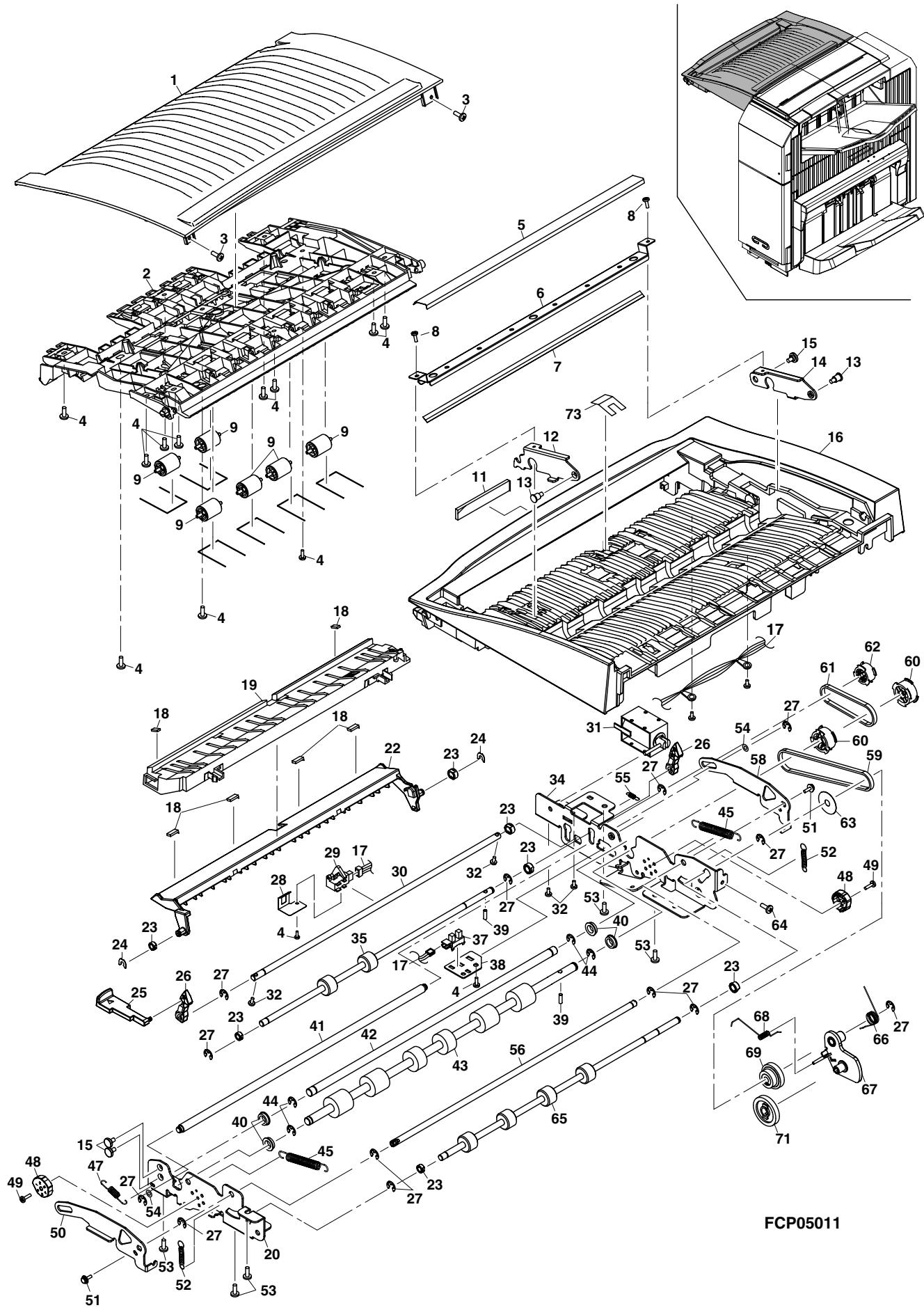


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2 中継ユニット(Interface unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PCÖVP1584FCZ3	BN	HZ	N	D	Upper cover
2	PGiDM1948FCZ1	BH	HC	N	C	Interface upper paper guide
3	LX-BZ0933FCZZ	AB	DD	N	C	Screw (3×10)
4	XEBSE30P08000	AA	DD		C	Screw (3×8)
5	PSHEZ4936FCZ1	AF	DS	N	C	Decurler cover protect sheet
6	PCÖVP1625FCZZ	AK	DX	N	C	Decurler cover
7	PSHEP4894FCZ1	AD	DJ	N	C	Pick up sheet
8	XHBSE30P10000	AA	DD		C	Screw (3×10)
9	NRÖLP1351FCZZ	AG	DX	N	C	Support roller
11	PMLT-1274FCZZ	AC	DJ	N	C	Paper entry cushion
12	MARMM0283FCZZ	AV	FG	N	C	Adjustment arm FN
13	LX-BZ0786FCZZ	AC	DD		C	holder screw
14	MARMM0280FCZZ	AV	FG	N	C	Adjustment arm RN
15	LX-BZ0285FCZZ	AB	DD		C	DV open/close screw
16	LDAIU0634FCZ1	BU	NN	N	D	Interface base plate
17	DHA-i-3228FCZZ	AT	EZ	N	C	SF interface unit harness
18	PMLT-1248FCZZ	AA	DJ	N	C	Paper entry gate R malt
19	PGiDM1933FCZ3	AZ	FQ	N	C	Interface lower paper guide
20	LFRM-1053FCZ1	AL	EB	N	D	Decurler drive frame F
22	PGiDM1947FCZ1	AY	FQ	N	C	Paper entry gate R
23	NBRGM0096FCZ1	AB	DJ		C	Bearing
24	0EURNGE050-//	AB	DJ		C	Resin ring (E5)
25	JHNDP0159FCZZ	AH	DX	N	C	Interface knob
26	MLEVP0823FCZZ	AF	DS	N	C	Lock lever
27	XRESP50-06000	AA	DD		C	E type ring (E5)
28	PCÖVP1612FCZ1	AE	DJ	N	D	Paper entry sensor cover
29	QSW-Z0524FCZZ	AZ	FQ	N	B	SF interface paper in sensor
30	NSFTZ2646FCZ1	AY	FQ	N	C	Open/close shaft
31	RPLU-0340FCZZ	AY	FQ	N	B	SPaper exit reversal gate solenoid
32	XBBSD30P06000	AA	DD		C	Screw (3×6)
34	LFRM-1052FCZ2	BC	GJ	N	D	Interface drive frame R
35	NRÖLR1345FCZZ	AV	FG	N	C	Transport roller R2
37	VHPGP1A73A+ -1	AG	DX	B		Photointerrupter Sensor (GP1A73A)
38	LPLTM5932FCZZ	AC	DJ	N	C	Tray 2 sensor fixing plate
39	LPIINS0261FCZZ	AB	DD		C	SP pin (3×10)
40	NBRGY0434FCZZ	AK	EQ		C	Bearing
41	NSFTZ2672FCZZ	AV	FG	N	C	Interface link shaft
42	NSFTZ2643FCZ2	AY	FQ	N	C	Decurler follower shaft
43	NRÖLR1346FCZ1	BM	HV	N	C	Decurler roller
44	XRESP60-08000	AA	DD		C	E type ring (E6)
45	MSPRT2942FCZZ	AE	DS	N	C	Interface open/close spring
47	MSPRD2941FCZ1	AC	DJ	N	C	Interface lock spring
48	PCLR-0467FCZ1	AE	DS	N	C	Adjustment collar F
49	XHBSE30P08000	AA	DD		C	Screw (3×8)
50	MLEVF0835FCZ1	AV	FG	N	C	Open/close lever F
51	XBPSD30P08KS0	AA	DD		C	Screw (3×8)
52	MSPRT2998FCZ1	AC	DJ	N	C	Decurler pressure spring
53	XEBSE40P10000	AA	DD		C	Screw (4×10)
54	LX-WZ2011SCZZ	AA	DD		C	Washer
55	MSPRT2946FCZZ	AC	DJ	N	C	Paper entry gate R spring
56	NSFTZ2648FCZ1	AX	FG	N	C	Interface pressure shaft
58	MLEVF0836FCZ1	AV	FG	N	C	Open/close lever R
59	NBLTH0358FCZZ	AM	EG	N	B	Belt (S3M288)
60	NPLYZ0383FCZZ	AF	DS	N	C	Pulley (24P)
61	NBLTH0362FCZZ	AL	EB	N	B	Belt
62	0EUPLY0412M//	AE	DS		C	Pulley (20P)
63	PSHEP4896FCZZ	AB	DJ	N	C	Flange myler
64	MSPRD3006FCZ1	AC	DJ	N	C	Return spring
65	NRÖLR1344FCZZ	AY	FQ	N	C	Transport roller R1
66	XHBSE40P10000	AA	DD		C	Screw (4×10)
67	LPLTP5855FCZZ	AL	EB	N	C	Transmit plate
68	MSPRD2922FCZ1	AD	DJ	N	C	Transmit plate spring
69	NGERH1450FCZZ	AV	FG	N	C	One way gear (20P/24T)
71	0EUGER0417L//	AF	DS		C	Delivery gear (29T)
73	PSHEZ4958FCZZ	AC	DJ	N	C	PID cover sheet

2 中継ユニット (Interface unit)



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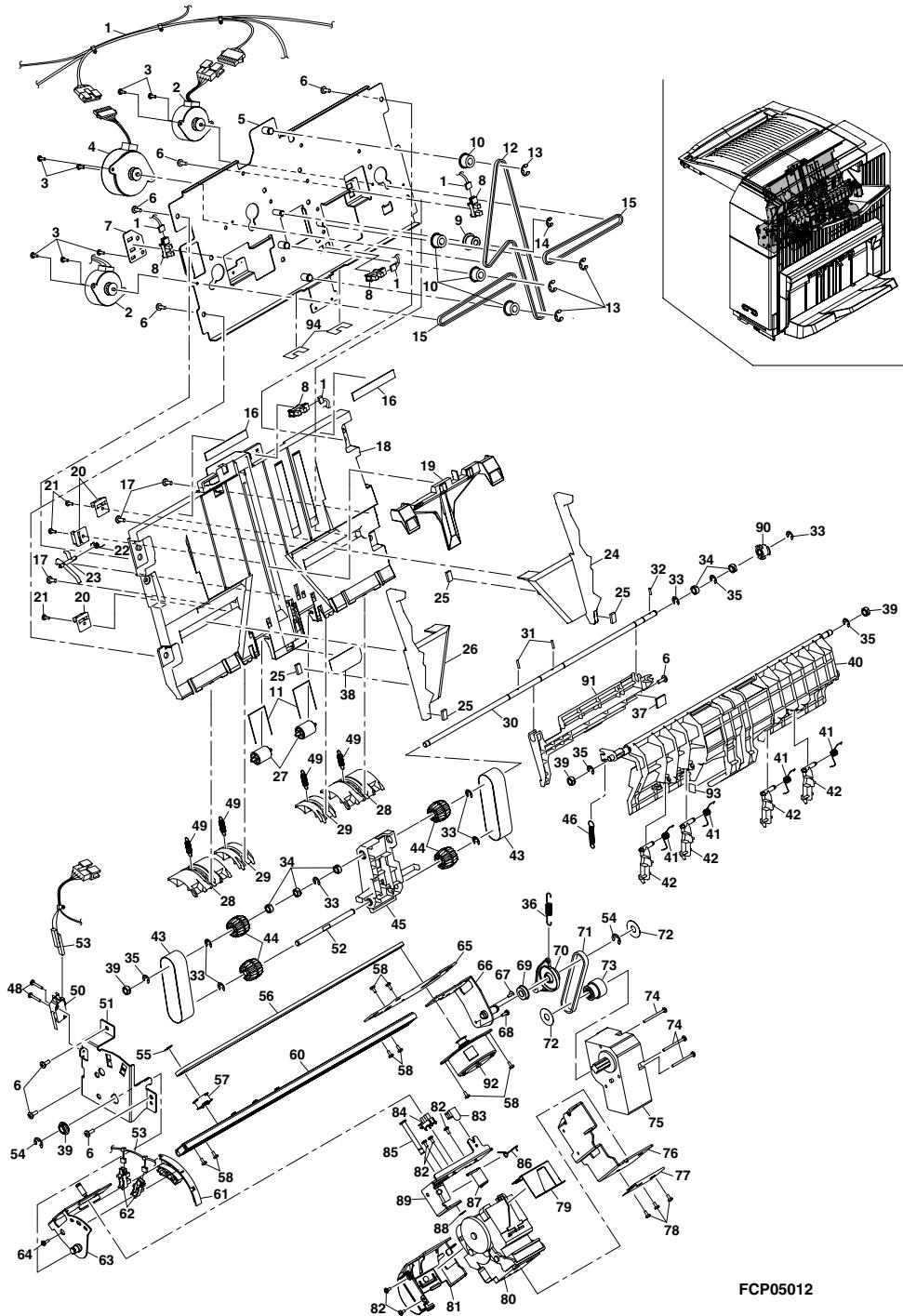
3 ステイユニット(Stay unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	DHA i - 3245FCZZ	BG	GT	N	C	SF compiler harness
2	RMOTS0872FCZZ	BQ	LP	N	B	SF Jogger Motor
3	XHBSE30P08000	AA	DD		C	Screw (3×8)
4	RMOTS0871FCZZ	BQ	LP	N	B	SF Pusher Motor
5	CFRM-1050FC03	AY	FQ	N	C	Jogger drive frame
6	XHBSE40P10000	AA	DD		C	Screw (4×10)
7	LPLTM5932FCZZ	AC	DJ	N	C	Tray 2 sensor fixing plate
8	VHPGP1A73A+ -1	AG	DX		B	Photointerrupter Sensor (GP1A73A)
9	PCLR-0466FCZZ	AG	DS	N	C	Idler roller
10	NPLYZ0265FCZZ	AC	DD		C	Pulley (16T)
11	MSPRD2929FCZZ	AC	DJ	N	C	Support spring
12	NBLTH0355FCZZ	AN	EQ	N	B	Belt (513)
13	XRESP70-08000	AA	DD		C	E type ring (E7)
14	XRESP50-06000	AA	DD		C	E type ring (E5)
15	NBLTH0346FCZZ	AM	EG	N	B	Belt (276)
16	PMLT-1269FCZZ	AC	DJ	N	C	Integration tray damper cushion
17	XEBSE40P10000	AA	DD		C	Screw (4×10)
18	LSOU-0185FCZ1	BK	HG	N	C	Adjustment tray
19	LF i X-0551FCZ1	AW	FG	N	C	After edge fixing plate
20	LF i X-0557FCZZ	AE	DJ	N	C	Belt fixing
21	XEBS30P08000	AA	DD		C	Screw (3×8)
22	MSPRD2949FCZZ	AC	DJ	N	C	Paper detection spring
23	MLEVP0826FCZZ	AF	DS	N	C	Paper detect lever
24	LPLTP5845FCZZ	AU	FG	N	C	Adjustment plate F
25	PMLT-1249FCZZ	AA	DJ	N	C	Jogger damper malt
26	LPLTP5844FCZZ	AU	FG	N	C	Adjustment plate F
27	NRÖLP1351FCZZ	AG	DX	N	C	Support roller
28	PG i DM1938FCZ2	AS	EQ	N	C	Move paper guide B
29	PG i DM1937FCZ1	AR	EQ	N	C	Move paper guide A
30	NSFTZ2655FCZZ	AY	FQ	N	C	Pressure sheet
31	LP i NS0133FCZZ	AA	DD		C	Pin (2×10)
32	LP i NS0326FCZZ	AC	DJ	N	C	SP pin (2×8)
33	XRESP50-06000	AA	DD		C	E type ring (E5)
34	NBRGM0096FCZ1	AB	DJ		C	Bearing
35	XRESP50-06000	AA	DD		C	E type ring (E5)
36	MSPRT2995FCZZ	AE	DJ	N	C	Stopper gate fixer spring
38	PSHEP4897FCZZ	AC	DJ	N	C	Delivery joint sheet
39	NBRGC0504FCZZ	AC	DJ		C	Bearing
40	PG i DM1928FCZ1	BK	HG	N	C	Stopper gate
41	MSPRD2948FCZ4	AC	DJ	N	C	Stopper spring
42	LSTPP0357FCZZ	AL	EB	N	C	Stopper 2
43	NBLTH0345FCZZ	AU	EZ	N	B	Flat belt
44	NPLYZ0381FCZ1	AH	DX	N	C	Pulley (D22)
45	LHLDZ1468FCZZ	AS	EZ	N	C	Pressure release holder
46	MSPRD2923FCZZ	AD	DJ	N	C	Stopper gate spring
48	XHBSD30P16000	AA	DD		C	Screw (3×16)
49	MSPRT2932FCZZ	AC	DJ	N	C	Move paper guide spring
50	QSW-M0502FCZZ	AH	DX	B		Micro switch
51	LPLTM5867FCZZ	AM	EG	N	C	ST fulcrum plate
52	NSFTZ2652FCZZ	AW	FG	N	C	Pressure holder sheet
53	DHA i - 3244FCZZ	AW	FG	N	C	SF front bottom harness
54	XRESP70-08000	AA	DD		C	E type ring (E7)
55	XRESP50-06000	AA	DD		C	E type ring (E5)
56	NBLTH0347FCZZ	AV	FG	N	B	ST Belt
57	0EUPLY0412M//	AE	DS		C	Pulley (20P)
58	XHBSE30P06000	AA	DD		C	Screw (3×6)
60	LRALM0194FCZZ	BE	GN	N	C	Staple rail
61	LPLTP5869FCZZ	AH	DX	N	C	Rotation shading plate
62	VHPGP1A73A+ -1	AG	DX		B	Photointerrupter Sensor (GP1A73A)
63	CPLTM5850FC01	AN	EG	N	C	Rail fixing plate F
64	XEBSD30P08000	AA	DD		C	Screw (3×8)
65	LPLTM5848FCZ1	AF	DS	N	C	Movement motor fixing plate
66	CPLTM5851FC01	AH	DX	N	C	Rail fixing plate R
67	LX-BZ3006GSC0S	AA	DD		C	Screw (3×6)
68	XHBSE30P08000	AA	DD		C	Screw (3×8)
69	NBRGY0466FCZZ	AK	EB		C	Bearing
70	NPLYZ0384FCZZ	AG	DX	N	C	ST fulcrum pulley
71	NBLTH0356FCZZ	AM	EG	N	B	Belt (222)
72	PSHEP4861FCZZ	AB	DJ	N	C	22P Flange myler
73	NPLYZ0392FCZZ	AH	DX	N	C	ST motor pulley
74	XHBSD30P35000	AA	DD		C	Screw (3×35)
75	CCÖVP1607FC32	BU	NN	N	E	Lift motor B unit
76	LSTYM0278FCZ1	AM	EG	N	C	ST support plate
77	PSHEZ4871FCZZ	AD	DJ	N	C	ST rotation protect sheet
78	XBBSD30P06000	AA	DD		C	Screw (3×6)
79	LF i X-0553FCZ1	AQ	EQ	N	C	ST fixing plate
80	DUNT-0159QSZZ	BS	MW		E	Staple UN
81	GCAB-0964FCZ1	AT	EZ	N	D	Staple cabinet
82	XHBSE30P06000	AA	DD		C	Screw (3×6)
83	LF i X-0556FCZZ	AE	DJ	N	C	ST belt fixing

3 ステイユニット(Stay unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
84	VHPGP1A73A+ -1	AG	DX		B	Photointerrupter Sensor (GP1A73A)
85	NSFTZ26444FCZZ	AF	DS	N	C	Staple rotation shaft
86	MSPRD2989FCZ2	AE	DJ	N	C	ST harness fixing spring
87	MSPRD2924FCZ1	AK	DX	N	C	ST fixing spring
88	XRESP40-06000	AA	DD		C	E type ring (E4)
89	LPL TM5846FCZ1	AL	EB	N	C	Staple rotation plate
90	NPLYZ0375FCZZ	AC	DJ	N	C	Pulley (22T)
91	MARMP0273FCZZ	AQ	EQ	N	C	Pressure arm
92	RMOTS0871FCZZ	BQ	LP	N	B	SF Pusher Motor
93	PMLT-1273FCZZ	AB	DJ	N	C	Stopper gate cution
94	PSHEZ4961FCZZ	AC	DJ	N	C	SP guide sheet

3 ステイユニット(Stay unit)



FCP05012

4 排紙ユニット(Delivery unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	NRÖLP1214FCZ1	AD	DJ		C	Delivery follower roller upper	排紙従動ローラー上
2	XRESP50-06000	AA	DD		C	E type ring (E5)	Eリング
3	NSFTZ2645FCZZ	AS	EQ	N	C	Delivery follower shaft	排紙従動軸
4	ML EVP0822FCZ1	AQ	EQ	N	C	Actuator	アシキタ-
5	MSPRT2993FCZ1	AC	DJ	N	C	SF delivery support spring	SF排紙従動SP
6	XEBSD30P06000	AA	DD		C	Screw (3x6)	ビス
7	PGiDH1935FCZ1	AQ	EQ	N	C	Delivery upper PG	排紙上PG
8	PGiDM1934FCZ1	AE	DS	N	C	Rib	コシ付ケリブ
9	PBRSS0212FCZZ	BH	GX	N	B	Tray 1 discharger brush	1トロ除電ブラシ
10	PGiDM1962FCZ1	AN	EG	N	C	Delivery roller guide	排紙ローラ導入ガイド
11	PMLT-1254FCZZ	AC	DJ	N	C	Gate cushion upper	ゲート消音モルト上
12	PGiDM1926FCZ1	BC	GD	N	C	S paper entry gate	S入紙ゲート
13	OEUGER0417L//	AF	DS		C	Delivery gear (29T)	排紙ギヤ
14	LPLTP5861FCZZ	AG	DS	N	C	Drive transmit plate	駆動伝達板
15	DHAi-3245FCZZ	BG	GT	N	C	SF compiler harness	SFコンパイラハーネス
16	DHAi-3251FCZZ	AK	DX	N	C	SFS paper in harness	SFS入紙ハーネス
17	PGiDM1936FCZ1	AZ	FQ	N	C	S paper entry paper guide under	S入紙PG下
18	XHBSE40P10000	AA	DD		C	Screw (4x10)	ビス
19	QSW-Z0528FCZZ	AZ	FQ	N	B	SF paper in sensor	SF入紙センサー
21	NRÖLR1352FCZZ	AX	FG	N	C	S paper entry roller	S入紙ローラー
22	NBRGM0096FCZ1	AB	DJ		C	Bearing	軸受
23	XRESP50-06000	AA	DD		C	E type ring (E5)	Eリング
24	NGERH1448FCZZ	AF	DS	N	C	Gear (16T)	ギヤ
25	MSPRT2933FCZZ	AC	DJ	N	C	Drive transmit plate spring	駆動伝達板SP
26	LPiNS0327FCZZ	AC	DJ	N	C	SP pin (2x10)	SPピン
27	OEURÖL0365L//	AE	DJ	N	C	Support roller FN3	従動ローラFN3
28	NSFTZ2656FCZ1	AW	FG	N	C	Staple support shaft	ST従動軸
29	NBRGM0096FCZ1	AB	DJ		C	Bearing	軸受
30	LPiNS0326FCZZ	AC	DJ	N	C	SP pin (2x8)	SPピン
31	XEBSD30P14000	AA	DD		C	Screw (3x14)	ビス
32	NSFTZ2675FCZZ	BF	GN	N	C	Knob shaft	取手軸
33	XBBSD30P06000	AA	DD		C	Screw (3x6)	ビス
34	LFiX-0552FCZ1	AW	FG	N	C	Paper fixing	用紙押I
35	MSPRD2944FCZ1	AD	DJ	N	C	Paper fixing spring	用紙押ISP
36	OEURNGE050-//	AB	DJ		C	Resin ring (E5)	樹脂リング
37	PSHEZ4870FCZZ	AB	DJ	N	C	Paper fixing damper sheet	用紙押I消音シート
38	PBRSS0216FCZZ	BM	HR	N	B	S paper entry discharger brush	S入紙除電ブラシ
39	XEBSE40P10000	AA	DD		C	Screw (4x10)	ビス
40	MSPRC2945FCZ1	AC	DJ	N	C	ST support spring	ST従動SP
41	CPLTM5917FC01	BE	GN	N	C	Delivery side plate R	排紙側板R
42	XHBSE40P10000	AA	DD		C	Screw (4x10)	ビス
43	NGERH0209FCZ1	AB	DD		C	Delivery roller gear (24T)	排紙ローラギヤ
44	ML EVP0823FCZZ	AF	DS	N	C	Lock lever	ロクレバー
45	NSFTZ2668FCZZ	AN	EG	N	C	Lock fulcrum boss	ロク支点軸
46	LX-BZ4008SC0M	AA	DD		C	Screw (4x8)	ビス
47	MSPRD2952FCZ1	AD	DJ	N	C	Lock spring R	ロクSP R
48	NBRGC0455FCZ1	AB	DJ		C	Bearing	軸受
49	LX-BZ0414FCZZ	AB	DD		C	Step screw	左用段ビス
50	CARMM0274FC02	BC	GJ	N	C	Crank arm R	ケランカラムR
51	XRESP70-08000	AA	DD		C	E type ring (E7)	Eリング
52	LX-BZ4008SC0M	AA	DD		C	Screw (4x8)	ビス
53	CPLTM5916FC01	BE	GN	N	C	Delivery side plate F	排紙側板F
54	XRESP50-06000	AA	DD		C	E type ring (E5)	Eリング
55	CARMM0274FC01	BC	GJ	N	C	Crank arm F	ケランカラムF
56	MSPRT2951FCZ1	AD	DJ	N	C	S paper entry gate spring	S入紙ゲートSP
57	MSPRD2928FCZ2	AD	DJ	N	C	Lock spring F	ロクSP F
58	NSFTZ2668FCZZ	AN	EG	N	C	Lock fulcrum boss	ロク支点軸
59	LX-BZ4008SC0M	AA	DD		C	Screw (4x8)	ビス
60	MARMP0275FCZ1	AG	DS	N	C	Link arm	リンクアーム
61	MSPRD2988FCZ1	AD	DJ	N	C	Link arm return spring	リンクアーム復帰SP
62	VHPGP1A73A+1	AG	DX		B	Photo sensor (GP1A73A)	フォトセンサー
63	PSHEZ4901FCZZ	AB	DJ	N	C	Link arm damper sheet	リンクアーム消音シート
64	XRESP70-08000	AA	DD		C	E type ring (E7)	Eリング
65	LX-BZ0528FCZZ	AC	DD		C	Brake step screw	ブレーキ用段ビス
66	MSPRD2947FCZZ	AN	EG	N	C	1 tray damper spring	1トレイダンパー-SP
67	LPLTM5910FCZZ	AQ	EQ	N	C	Dumper SP fixing plate	ダンパー-SP取付板
68	LX-BZ0930FCZZ	AC	DD	N	C	Screw (4x6)	ビス
69	LSOU-0188FCZ1	BE	GN	N	C	Delivery tray	排紙トレイ
70	LSOU-0177FCGZ	AP	EQ	N	C	Delivery tray T	排紙トレイT
71	CPLTM5853FC01	AU	EZ	N	C	Delivery motor fixing plate	排紙モータ取付板
72	XHBSD30P35000	AA	DD		C	Screw (3x35)	ビス
73	RMÖTS0870FCZZ	BK	HG	N	B	ADU transport Motor Lower	ADU搬送モータ下
74	LBNDJ0013FCZ1	AA	DJ		C	Band	結束バンド
75	XEBSE40P10000	AA	DD		C	Screw (4x10)	ビス
76	LPLTM5857FCZZ	AH	DX	N	C	Electric discharger brush fixing plate	除電ブラシ取付板
77	NPLYZ0382FCZZ	AL	EB	N	C	Motor pulley	モーターピーリー
78	NSFTZ2654FCZZ	AX	FG	N	C	Paper guide fixing shaft	PG固定軸
79	XRESP50-06000	AA	DD		C	E type ring (E5)	Eリング
80	NBRGY0661FCZZ	AR	EQ	N	C	Bearing	軸受
81	NRÖLR1363FCZZ	AR	EQ	N	C	Delivery roller	排紙ローラー

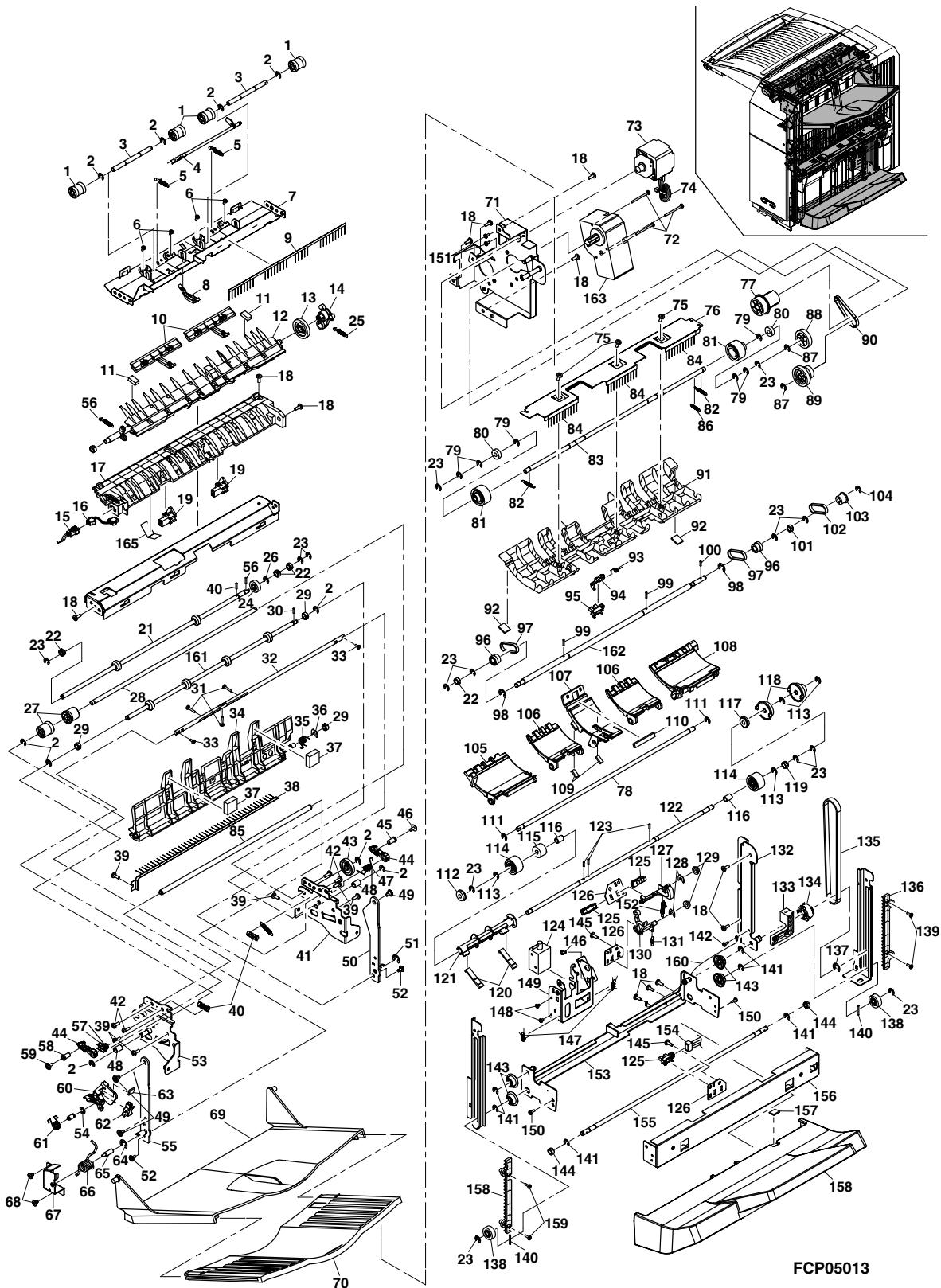
4 排紙ユニット(Delivery unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
82	MSPRT2997FCZZ	AC	DJ	N	C	Delivery separato spring
83	NSFTZ2673FCZ1	AX	FG	N	C	Delivery separator shaft
84	PBRSS0211FCZ1	AZ	FX	N	B	Tray 2 discharger brush
85	NSFTZ2671FCZ1	AZ	FQ	N	C	Joint shaft
86	MSPRT2996FCZZ	AC	DJ	N	C	PG upper earth spring
87	XRESP50-06000	AA	DD		C	E type ring (E5)
88	NGERH1473FCZZ	AH	DX	N	C	Gear (27T/22P)
89	NGERH1451FCZZ	AK	EB	N	C	Gear (30T/31P)
90	NBLTH0360FCZZ	AK	DX	N	B	Belt (S2M128)
91	PGIDM1931FCZZ	AZ	FQ	N	C	Delivery paper guide upper
92	PMLT-1252FCZZ	AB	DJ	N	C	Delivery PG malt
93	MSPRC3024FCZZ	AD	DJ	N	C	Delivery lower spring
94	MLEVP0826FCZZ	AF	DS	N	C	Paper detect lever
95	VHPGP1A73A+ -1	AG	DX		B	Photointerrupter Sensor (GP1A73A)
96	NPLYZ0396FCZZ	AF	DS	N	C	Pulley (22P)
97	NBLTH0366FCZZ	AK	DX	N	B	Belt (40S2M90)
98	XRESP70-08000	AA	DD		C	E type ring (E7)
99	LPINS0327FCZZ	AC	DJ	N	C	SP pin (2×10)
100	LPINS0326FCZZ	AC	DJ	N	C	SP pin (2×8)
101	NBRGM0096FCZ1	AB	DJ		C	Bearing
102	NBLTH0366FCZZ	AK	DX	N	B	Belt (40S2M90)
103	NPLYZ0378FCZZ	AF	DS	N	C	Pulley (22P S2M)
104	XRESP50-06000	AA	DD		C	E type ring (E5)
105	PGIDM1927FCZ3	AS	EZ	N	C	Rotation paper guide-FL
106	PGIDM1930FCZ2	AT	EZ	N	C	Rotation paper guide-FS
107	PGIDM1929FCZ2	AP	EQ	N	C	Delivery fixing paper guide
108	PGIDM1946FCZ3	AS	EZ	N	C	Rotation paper guide-RL
109	PMLT-1251FCZZ	AA	DJ	N	C	Rotation malt
110	PMLT-1250FCZZ	AC	DJ	N	C	Stopper malt
111	XRESP50-06000	AA	DD		C	E type ring (E5)
112	0EUBRG0313L//	AP	EQ	N	C	Bearing
113	XRESP50-06000	AA	DD		C	E type ring (E5)
114	NROLR1360FCZZ	AR	EQ	N	C	Delivery lower roller
115	PCLC-0309FCZZ	BA	FX	N	C	Torque limiter
116	NBRGC0455FCZ1	AB	DJ		C	Bearing
117	0EUBRG0313L//	AP	EQ	N	C	Bearing
118	NGERH1412FCZ1	AV	FG	N	C	One way gear (23T)
119	NBRGM0096FCZ1	AB	DJ		C	Bearing
120	PGUMS0292FCZZ	AK	DX	N	C	S paddler
121	MARMP0279FCZ1	AP	EQ	N	C	Smoll paddler fixing arm
122	NSFTZ2662FCZZ	BB	GD	N	C	Delivery roller shaft
123	LPINS0326FCZZ	AC	DJ	N	C	SP pin (2×8)
124	RPLU-0348FCZZ	AW	FG	N	B	Paddler solenoid
125	VHPGP1A73A+ -1	AG	DX		B	Photointerrupter Sensor (GP1A73A)
126	LPLTM5932FCZZ	AC	DJ	N	C	Tray 2 sensor fixing plate
127	MLEVP0821FCZZ	AK	EB	N	C	Full detection actuator
128	0EURNGE050-//	AB	DJ		C	Resin ring (E5)
129	NBRGC0188FCZZ	AB	DD		C	Bearing
130	MARMP0277FCZ4	AF	DS	N	C	Smoll paddler rotation arm
131	MSPRT2972FCZ1	AC	DJ	N	C	Smoll paddler rotate spring
132	CPLTM5854FC01	AL	EB	N	C	EV belt fixing plate
133	LFI-X-0555FCZ1	AG	DS	N	C	EV belt fixing
134	NPLYZ0383FCZZ	AF	DS	N	C	Pulley (24P)
135	NBLTH0348FCZZ	AN	EQ	N	B	EV Belt
136	NGERR1408FCZZ	AG	DS	N	C	EV rack gear
137	XRESP70-08000	AA	DD		C	E type ring (E7)
138	NGERH0863FCZZ	AB	DD		C	Pick up roller gear (18T)
139	XEBS30P08000	AA	DD		C	Screw (3×8)
140	LPINS0327FCZZ	AC	DJ	N	C	SP pin (2×10)
141	XRESP50-06000	AA	DD		C	E type ring (E5)
142	XHBSE30P08000	AA	DD		C	Screw (3×8)
143	PCLR-0469FCZZ	AE	DS	N	C	Lift UP roller
144	NBRGM0096FCZ1	AB	DJ		C	Bearing
145	XEBSE40P10000	AA	DD		C	Screw (4×10)
146	XHBSE30P08000	AA	DD		C	Screw (3×8)
147	MSPRT2930FCZ1	AC	DJ	N	C	Upper limit sensor fixing plate spring
148	XBBSD30P04000	AA	DD		C	Screw (3×4)
149	LPLTM5849FCZZ	BA	FX	N	C	Upper limit sensor fixing plate
150	XHBSE30P08000	AA	DD		C	Screw (3×8)
151	XBBSD30P06000	AA	DD		C	Screw (3×6)
152	MSPRT2925FCZZ	AD	DJ	N	C	Full detection spring
153	CPLTM5852FC01	BK	HC	N	C	EV fixing plate
154	DHA-i-3229FCZZ	AS	EQ	N	C	SF elevator harness
155	NSFTZ2653FCZZ	AX	FG	N	C	Pinion shaft
156	LPLTM5866FCZZ	BC	GD	N	C	Tray 2 fixing plate
157	PMLT-1253FCZZ	AB	DJ	N	C	Tray 2 cushion
158	NGERR1408FCZZ	AG	DS	N	C	EV rack gear
159	XEBS30P08000	AA	DD		C	Screw (3×8)
160	DHA-i-3231FCZZ	AF	DS	N	C	SF discharger brush earth harness
161	NROLR1343FCZZ	AW	FG		C	Support roller

4 排紙ユニット(Delivery unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
162	NSFTZ2674FCZZ	AZ	FX		C	Delivery drive shaft
163	CC0VP1607FC31	BU	NU	N	E	Lift motor A unit
165	PSHEZ4959FCZ1	AC	DJ	N	C	SCID2 cover sheet

4 排紙ユニット(Delivery unit)

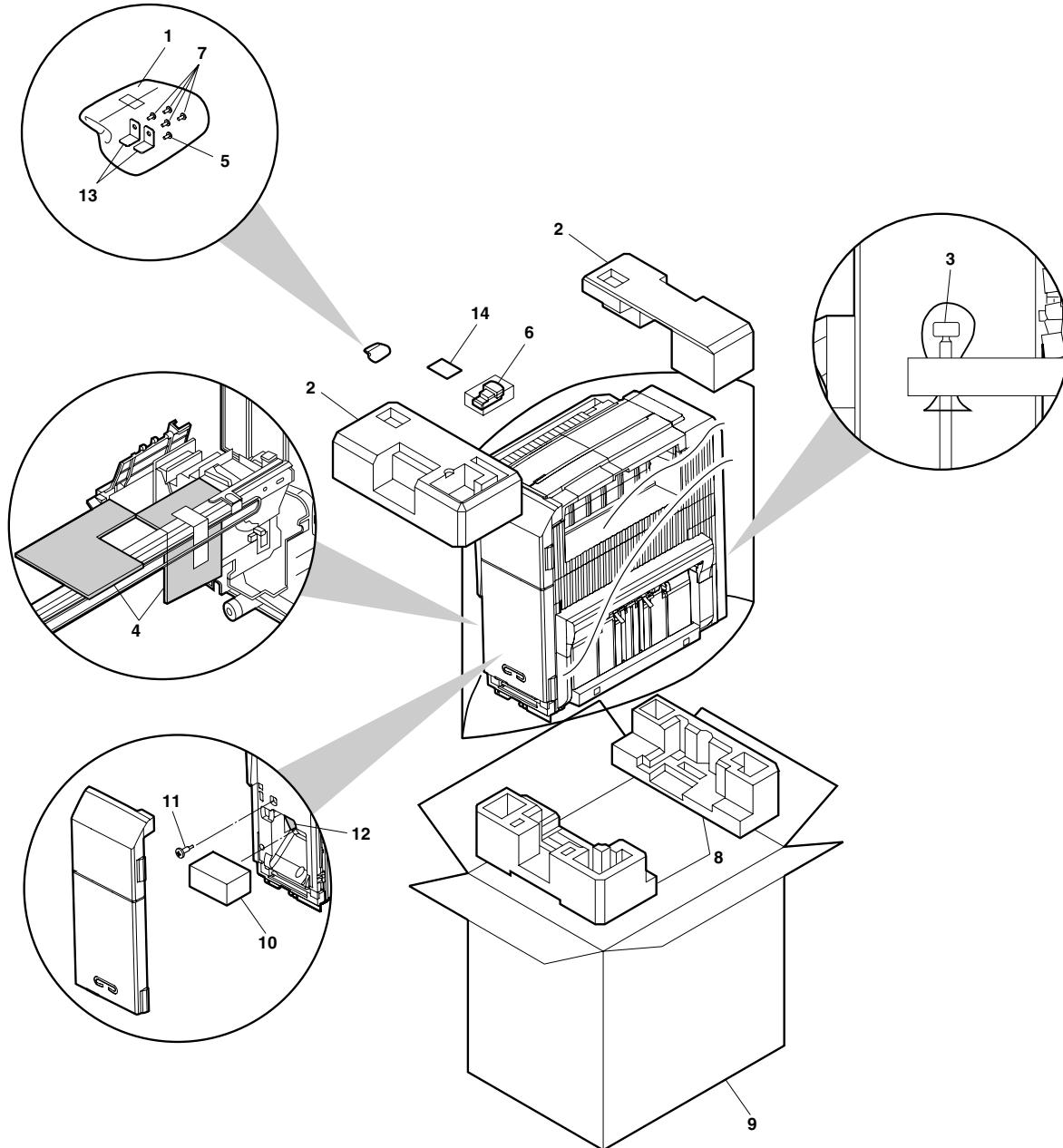


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5 梱包材 & 付属品 (Packing material & Accessories)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	SSAKA0006UCZZ	AA	DD	N	D	Vinyl bag
2	SPAKA6179FCZ1	AZ	FQ	N	D	Top add
3	SPAKA-545ECCZZ	AA	DD		D	Vinyl bag (100×220)
4	SPAKA6195FCZZ	AD	DJ	N	D	ST actuator fixing cushion
5	XHBSE40P08000	AA	DD		C	Screw (4×8)
6	CCASA0012QS31	BC	GD		E	Staple cartridge unit
7	LPINS0328FCZZ	AE	DS	N	C	Pin
8	SPAKA6180FCZZ	BA	FX	N	D	Bottom add
9	SPAKC6170FCZZ	BG	GT	N	D	Packing case
10	SPAKA6190FCZZ	AG	DX	N	D	ST fixing cushion
11	LX-BZ0825FCZZ	AC	DD		C	MG fixing screw
12	0EULAB0404K//	AD	DJ		C	Caution label
13	LPLTM5807FCZZ	AD	DJ	N	C	OP fixing plate R
14	TLABZ4708FCZZ	AE	DS	N	C	ST label

5 梱包材 & 付属品 (Packing material & Accessories)



■ 索引(Index)

PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R.		NEW	P/R
			Ex.	Ja.		
[C]						
CARMM0274FC01	572 240 0421	4- 55	BC	GJ	N	C
CARMM0274FC02	572 240 0422	4- 50	BC	GJ	N	C
CCASA0012QS31	572 108 1296	5- 6	BC	GD		E
CCÖVP1607FC31	572 110 1223	4-163	BU	NU	N	E
CCÖVP1607FC32	572 110 1224	3- 75	BU	NN	N	E
CFRM-1050FC03	572 213 2164	3- 5	AY	FQ	N	C
CFRM-1051FC01	572 213 2146	1- 66	AU	EZ	N	C
CPLTM5850FC01	572 221 7784	3- 63	AN	EG	N	C
CPLTM5851FC01	572 221 7785	3- 66	AH	DX	N	C
CPLTM5852FC01	572 221 7786	4-153	BK	HC	N	C
CPLTM5853FC01	572 221 7787	4- 71	AU	EZ	N	C
CPLTM5854FC01	572 221 7788	4-132	AL	EB	N	C
CPLTM5902FC01	572 221 7789	1- 69	AG	DX	N	C
CPLTM5903FC01	572 221 7790	1- 23	AG	DX	N	C
CPLTM5916FC01	572 221 7791	4- 53	BE	GN	N	C
CPLTM5917FC01	572 221 7792	4- 41	BE	GN	N	C
CPWBN1478FC32	572 684 3819	1- 59	BZ	TF	N	E
[D]						
DHAI-3226FCZZ	572 542 1977	1- 58	AN	EG	N	C
DHAI-3227FCZZ	572 542 1978	1- 27	AH	DX	N	C
DHAI-3228FCZZ	572 542 1979	1- 14	AT	EZ	N	C
"	572 542 1979	2- 17	AT	EZ	N	C
DHAI-3229FCZZ	572 542 1980	1- 83	AS	EQ	N	C
"	572 542 1980	4-154	AS	EQ	N	C
DHAI-3231FCZZ	572 542 1981	4-160	AF	DS	N	C
DHAI-3243FCZZ	572 542 1985	1- 45	BF	GN	N	C
DHAI-3244FCZZ	572 542 1986	3- 53	AW	FG	N	C
DHAI-3245FCZZ	572 542 1987	3- 1	BG	GT	N	C
"	572 542 1987	4- 15	BG	GT	N	C
DHAI-3246FCZZ	572 542 1988	1- 91	AS	EZ	N	C
DHAI-3251FCZZ	572 542 1989	4- 16	AK	DX	N	C
DHAI-3272FCZZ	572 542 1991	1- 80	AY	FQ	N	C
DUNT-0159QSZZ	578 685 0486	3- 80	BS	MW		E
[G]						
GCAB-0961FCZZ	572 107 2011	1- 31	AY	FQ	N	D
GCAB-0962FCZ3	572 107 2031	1- 85	BN	HZ	N	D
GCAB-0963FCZ5	572 107 2032	1- 57	BP	LP	N	D
GCAB-0964FCZ1	572 107 2033	3- 81	AT	EZ	N	D
GCAB-0965FCZ2	572 107 2034	1- 68	BB	GD	N	D
GCAB-0966FCZ3	572 107 2035	1- 56	BQ	LP	N	D
GCAB-0967FCZ2	572 107 2036	1- 2	BE	GN	N	D
GCAB-0968FCZZ	572 107 2012	1- 72	BH	GX	N	D
GCAB-0969FCZ1	572 107 2021	1- 88	AS	EZ	N	D
GCAB-0970FCZ2	572 107 2037	1- 86	BB	GD	N	D
GDOR-0034FCZZ	572 113 0065	1- 89	BM	HR	N	D
[J]						
JHNDP0159FCZZ	572 172 0203	2- 25	AH	DX	N	C
JHNDP0161FCZZ	572 172 0204	1- 3	AV	FG	N	C
[L]						
LBNDJ0013FCZ1	572 201 0118	4- 74	AA	DJ		C
LBSHC0351FCZZ	572 204 0460	1- 33	AG	DS	N	C
LBSHC0352FCZ1	572 204 0462	1- 75	AE	DS	N	C
LDAIU0634FCZ1	572 210 1190	2- 16	BU	NN	N	D
LFIX-0551FCZ1	572 211 0732	3- 19	AW	FG	N	C
LFIX-0552FCZ1	572 211 0733	4- 34	AW	FG	N	C
LFIX-0553FCZ1	572 211 0734	3- 79	AQ	EQ	N	C
LFIX-0555FCZ1	572 211 0735	4-133	AG	DS	N	C
LFIX-0556FCZZ	572 211 0730	3- 83	AE	DJ	N	C
LFIX-0557FCZZ	572 211 0731	3- 20	AE	DJ	N	C
LFRM-1052FCZ2	572 213 2161	2- 34	BC	GJ	N	D
LFRM-1053FCZ1	572 213 2162	2- 20	AL	EB	N	D
LHLDW1487FCZZ	572 214 2174	1- 19	AE	DJ	N	C
LHLDW1488FCZZ	572 214 2175	1- 95	AH	DX	N	C
LHLDW1489FCZZ	572 214 2176	1- 64	AC	DJ	N	C
LHLDZ14468FCZZ	572 214 2181	3- 45	AS	EZ	N	C
LHLDZ14469FCZZ	572 214 2182	1- 54	AE	DJ	N	C
LPINS0133FCZZ	572 218 0086	3- 31	AA	DD		C
LPINS0261FCZZ	572 218 0339	2- 39	AB	DD		C
LPINS0326FCZZ	572 218 0604	3- 32	AC	DJ	N	C
"	572 218 0604	4- 30	AC	DJ	N	C
"	572 218 0604	4-100	AC	DJ	N	C
"	572 218 0604	4-123	AC	DJ	N	C
LPINS0327FCZZ	572 218 0605	4- 26	AC	DJ	N	C
"	572 218 0605	4- 99	AC	DJ	N	C
"	572 218 0605	4-140	AC	DJ	N	C
LPINS0328FCZZ	572 218 0602	5- 7	AE	DS	N	C
LPLTM5807FCZZ	572 221 7803	5- 13	AD	DJ	N	C
LPLTM5846FCZ1	572 221 7874	3- 89	AL	EB	N	C

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LPLTM5848FCZ1	572 221 7875	3- 65	AF	DS	N	C			
LPLTM5849FCZZ	572 221 7804	4-149	BA	FX	N	C			
LPLTM5857FCZZ	572 221 7805	4- 76	AH	DX	N	C			
LPLTM5858FCZ1	572 221 7866	1- 24	AL	EB	N	C			
LPLTM5860FCZZ	572 221 7806	1- 5	AG	DX	N	C			
LPLTM5866FCZZ	572 221 7807	4-156	BC	GD	N	C			
LPLTM5867FCZZ	572 221 7808	3- 51	AM	EG	N	C			
LPLTM5868FCZZ	572 221 7809	1- 62	AN	EQ	N	C			
LPLTM5909FCZZ	572 221 7812	1- 18	AQ	EQ	N	C			
LPLTM5910FCZZ	572 221 7813	4- 67	AQ	EQ	N	C			
LPLTM5915FCZZ	572 221 7815	1- 94	AH	DX	N	C			
LPLTM5923FCZZ	572 221 7816	1- 29	AP	EQ	N	C			
LPLTM5932FCZZ	572 221 7867	2- 38	AC	DJ	N	C			
"	572 221 7867	3- 7	AC	DJ	N	C			
"	572 221 7867	4-126	AC	DJ	N	C			
LPLTP5844FCZZ	572 221 7817	3- 26	AU	FG	N	C			
LPLTP5845FCZZ	572 221 7818	3- 24	AU	FG	N	C			
LPLTP5847FCZ2	572 221 7876	1- 82	BN	LE	N	C			
LPLTP5855FCZZ	572 221 7819	2- 67	AL	EB	N	C			
LPLTP5861FCZZ	572 221 7820	4- 14	AG	DS	N	C			
LPLTP5869FCZZ	572 221 7821	3- 61	AH	DX	N	C			
LRALM0194FCZZ	572 223 0276	3- 60	BE	GN	N	C			
LSÖU-0177FCGZ	572 226 0650	4- 70	AP	EQ	N	C			
LSÖU-0185FCZ1	572 226 0657	3- 18	BK	HG	N	C			
LSOU-0188FCZ1	572 226 0658	4- 69	BE	GN	N	C			
LSTPP0357FCZZ	572 230 0520	3- 42	AL	EB	N	C			
LSTYM0278FCZ1	572 231 0522	3- 76	AM	EG	N	C			
LSTYM0281FCZ1	572 231 0523	1- 71	AN	EG	N	C			
LSUPP0083FCZZ	572 233 0113	1- 61	AB	DJ	C	C			
LX-BZ0285FCZZ	593 970 0006	2- 15	AB	DD	C	C			
LX-BZ0414FCZZ	572 970 0374	4- 49	AB	DD	C	C			
LX-BZ0490FCZZ	572 970 0483	1- 13	AC	DD	C	C			
LX-BZ0528FCZZ	577 970 0029	4- 65	AC	DD	C	C			
LX-BZ0786FCZZ	572 970 1621	2- 13	AC	DD	C	C			
LX-BZ0825FCZZ	572 970 1792	5- 11	AC	DD	C	C			
LX-BZ0930FCZZ	572 970 2327	1- 21	AC	DD	N	C			
"	572 970 2327	4- 68	AC	DD	N	C			
LX-BZ0933FCZZ	572 970 2328	2- 3	AB	DD	N	C			
LX-BZ3006SC0S	541 970 5148	3- 67	AA	DD	C	C			
LX-BZ4008SC0M	577 970 0006	4- 46	AA	DD	C	C			
"	577 970 0006	4- 52	AA	DD	C	C			
"	577 970 0006	4- 59	AA	DD	C	C			
LX-WZ2011SCZZ	595 990 0031	2- 54	AA	DD	C	C			
[M]									
MARMM0280FCZ2	572 240 0437	2- 14	AV	FG	N	C			
MARMM0283FCZ2	572 240 0438	2- 12	AV	FG	N	C			
MARMP0273FCZZ	572 240 0426	3- 91	AQ	EQ	N	C			
MARMP0275FCZ1	572 240 0440	4- 60	AG	DS	N	C			
MARMP0276FCZZ	572 240 0427	1- 50	AF	DS	N	C			
MARMP0277FCZ4	572 240 0441	4-130	AF	DS	N	C			
MARMP0279FCZ1	572 240 0442	4-121	AP	EQ	N	C			
MLEVF0835FCZ1	572 248 1354	2- 50	AV	FG	N	C			
MLEVF0836FCZ1	572 248 1355	2- 58	AV	FG	N	C			
MLEVP0821FCZZ	572 248 1336	4-127	AK	EB	N	C			
MLEVP0822FCZ1	572 248 1356	4- 4	AQ	EQ	N	C			
MLEVP0823FCZZ	572 248 1337	2- 26	AF	DS	N	C			
"	572 248 1337	4- 44	AF	DS	N	C			
MLEVP0826FCZZ	572 248 1338	3- 23	AF	DS	N	C			
"	572 248 1338	4- 94	AF	DS	N	C			
MSPRC2945FCZ1	572 258 3881	4- 40	AC	DJ	N	C			
MSPRC2950FCZZ	572 258 3820	1- 9	AC	DJ	N	C			
MSPRC3019FCZZ	572 258 3866	1- 26	AE	DJ	N	C			
MSPRC3024FCZZ	572 258 3867	4- 93	AD	DJ	N	C			
MSPRD2922FCZ1	572 258 3874	2- 68	AD	DJ	N	C			
MSPRD2923FCZZ	572 258 3826	3- 46	AD	DJ	N	C			
MSPRD2924FCZ1	572 258 3883	3- 87	AK	DX	N	C			
MSPRD2926FCZ1	572 258 3884	1- 15	AE	DS	N	C			</

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			Ex.	Ja.		
MSPRT2932FCZZ	572 258 3837	3- 49	AC	DJ	N	C
MSPRT2933FCZZ	572 258 3838	4- 25	AC	DJ	N	C
MSPRT2942FCZZ	572 258 3839	2- 45	AE	DS	N	C
MSPRT2946FCZZ	572 258 3840	2- 55	AC	DJ	N	C
MSPRT2951FCZ1	572 258 3895	4- 56	AD	DJ	N	C
MSPRT2972FCZ1	572 258 3896	4-131	AC	DJ	N	C
MSPRT2992FCZ1	572 258 3897	1- 81	AD	DJ	N	C
MSPRT2993FCZ1	572 258 3898	4- 5	AC	DJ	N	C
MSPRT2995FCZZ	572 258 3841	3- 36	AE	DJ	N	C
MSPRT2996FCZZ	572 258 3842	4- 86	AC	DJ	N	C
MSPRT2997FCZZ	572 258 3843	4- 82	AC	DJ	N	C
MSPRT2998FCZ1	572 258 3899	2- 52	AC	DJ	N	C
MSPRT3013FCZ1	572 258 3844	1- 25	AD	DJ	N	C
[N]						
NBLTH0345FCZZ	572 271 0707	3- 43	AU	EZ	N	B
NBLTH0346FCZZ	572 271 0708	3- 15	AM	EG	N	B
NBLTH0347FCZZ	572 271 0709	3- 56	AV	FG	N	B
NBLTH0348FCZZ	572 271 0710	4-135	AN	EQ	N	B
NBLTH0355FCZZ	572 271 0714	3- 12	AN	EQ	N	B
NBLTH0356FCZZ	572 271 0715	3- 71	AM	EG	N	B
NBLTH0358FCZZ	572 271 0717	2- 59	AM	EG	N	B
NBLTH0360FCZZ	572 271 0718	4- 90	AK	DX	N	B
NBLTH0361FCZZ	572 271 0719	1- 42	AK	EB	N	B
NBLTH0362FCZZ	572 271 0720	2- 61	AL	EB	N	B
NBLTH0366FCZZ	572 271 0721	4- 97	AK	DX	N	B
"	572 271 0721	4-102	AK	DX	N	B
NBRGC0188FCZZ	572 272 0243	4-129	AB	DD		C
NBRGC0455FCZ1	572 272 0466	4- 48	AB	DJ		C
"	572 272 0466	4-116	AB	DJ		C
NBRGC0504FCZZ	572 272 0467	3- 39	AC	DJ		C
NBRGM0096FCZ1	572 272 0487	2- 23	AB	DJ		C
"	572 272 0487	3- 34	AB	DJ		C
"	572 272 0487	4- 22	AB	DJ		C
"	572 272 0487	4- 29	AB	DJ		C
"	572 272 0487	4-101	AB	DJ		C
"	572 272 0487	4-119	AB	DJ		C
"	572 272 0487	4-144	AB	DJ		C
NBRGY0434FCZZ	572 272 0051	2- 40	AK	EQ		C
NBRGY0466FCZZ	572 272 0425	3- 69	AK	EB		C
NBRGY0661FCZZ	572 272 0790	4- 80	AR	EQ	N	C
NGERH0209FCZ1	572 281 0329	1- 36	AB	DD		C
"	572 281 0329	4- 43	AB	DD		C
NGERH0863FCZZ	572 281 0941	4-138	AB	DD		C
NGERH1412FCZ1	572 281 2189	4-118	AV	FG	N	C
NGERH1448FCZZ	572 281 2174	4- 24	AF	DS	N	C
NGERH1450FCZZ	572 281 2175	2- 69	AV	FG	N	C
NGERH1451FCZZ	572 281 2176	4- 89	AK	EB	N	C
NGERH1463FCZZ	572 281 2123	1- 67	AF	DS	N	C
NGERH1464FCZZ	572 281 2177	1- 38	AK	DX	N	C
NGERH1465FCZZ	572 281 2178	1- 37	AK	DX	N	C
NGERH1473FCZZ	572 281 2179	4- 88	AH	DX	N	C
NGERR1408FCZZ	572 281 2180	4-136	AG	DS	N	C
"	572 281 2180	4-158	AG	DS	N	C
NPLYZ0265FCZZ	572 284 0440	3- 10	AC	DD		C
NPLYZ0375FCZZ	572 284 0818	3- 90	AC	DJ	N	C
NPLYZ0378FCZZ	572 284 0809	4-103	AF	DS	N	C
NPLYZ0381FCZ1	572 284 0822	3- 44	AH	DX	N	C
NPLYZ0382FCZZ	572 284 0810	4- 77	AL	EB	N	C
NPLYZ0383FCZZ	572 284 0811	2- 60	AF	DS	N	C
"	572 284 0811	4-134	AF	DS	N	C
NPLYZ0384FCZZ	572 284 0812	3- 70	AG	DX	N	C
NPLYZ0392FCZZ	572 284 0813	3- 73	AH	DX	N	C
NPLYZ0396FCZZ	572 284 0815	4- 96	AF	DS	N	C
NROLP1214FCZ1	572 287 1801	4- 1	AD	DJ		C
NROLP1351FCZZ	572 287 2211	2- 9	AG	DX	N	C
"	572 287 2211	3- 27	AG	DX	N	C
NROLR1343FCZZ	572 287 2218	4-161	AW	FG		C
NROLR1344FCZZ	572 287 2219	2- 65	AY	FQ	N	C
NROLR1345FCZZ	572 287 2220	2- 35	AV	FG	N	C
NROLR1346FCZ1	572 287 2241	2- 43	BM	HV	N	C
NROLR1352FCZZ	572 287 2222	4- 21	AX	FG	N	C
NROLR1360FCZZ	572 287 2223	4-114	AR	EQ	N	C
NROLR1363FCZZ	572 287 2224	4- 81	AR	EQ	N	C
NSFTZ2643FCZ2	572 290 2774	2- 42	AY	FQ	N	C
NSFTZ2644FCZ2	572 290 2737	1- 7	AF	DS	N	C
"	572 290 2737	3- 85	AF	DS	N	C
NSFTZ2645FCZZ	572 290 2738	4- 3	AS	EQ	N	C
NSFTZ2646FCZ1	572 290 2770	2- 30	AY	FQ	N	C
NSFTZ2648FCZ1	572 290 2771	2- 56	AX	FG	N	C
NSFTZ2651FCZZ	572 290 2739	1- 49	AH	DX	N	C
NSFTZ2652FCZZ	572 290 2740	3- 52	AW	FG	N	C

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			Ex.	Ja.		
NSFTZ2653FCZZ	572 290 2741	4-155	AX	FG	N	C
NSFTZ2654FCZZ	572 290 2742	4- 78	AX	FG	N	C
NSFTZ2655FCZZ	572 290 2743	3- 30	AY	FQ	N	C
NSFTZ2656FCZ1	572 290 2775	4- 28	AW	FG	N	C
NSFTZ2662FCZZ	572 290 2745	4-122	BB	GD	N	C
NSFTZ2663FCZZ	572 290 2746	1- 8	AH	DX	N	C
NSFTZ2668FCZZ	572 290 2747	4- 45	AN	EG	N	C
"	572 290 2747	4- 58	AN	EG	N	C
NSFTZ2671FCZ1	572 290 2776	4- 85	AZ	FQ	N	C
NSFTZ2672FCZZ	572 290 2749	2- 41	AV	FG	N	C
NSFTZ2673FCZ1	572 290 2777	4- 83	AX	FG	N	C
NSFTZ2674FCZZ	572 290 2750	4-162	AZ	FX		C
NSFTZ2675FCZZ	572 290 2751	4- 32	BF	GN	N	C
[P]						
PBRSS0211FCZ1	572 310 0353	4- 84	AZ	FX	N	B
PBRSS0212FCZZ	572 310 0349	4- 9	BH	GX	N	B
PBRSS0216FCZZ	572 310 0350	4- 38	BM	HR	N	B
PCLC-0309FCZZ	572 316 0394	4-115	BA	FX	N	C
PCLR-0466FCZZ	572 318 0574	3- 9	AG	DS	N	C
PCLR-0467FCZ1	572 318 0579	2- 48	AE	DS	N	C
PCLR-0469FCZZ	572 318 0576	4-143	AE	DS	N	C
PCOVP1582FCZ1	572 323 2161	1- 16	BK	HC	N	D
PCOVP1584FCZ3	572 323 2173	2- 1	BN	HZ	N	D
PCOVP1612FCZ1	572 323 2162	2- 28	AE	DJ	N	D
PCOVP1625FCZZ	572 323 2160	2- 6	AK	DX	N	C
PGIDH1935FCZ1	572 345 3660	4- 7	AQ	EQ	N	C
PGIDM1926FCZ1	572 345 3664	4- 12	BC	GD	N	C
PGIDM1927FCZ3	572 345 3665	4-105	AS	EZ	N	C
PGIDM1928FCZ1	572 345 3666	3- 40	BK	HG	N	C
PGIDM1929FCZZ	572 345 3636	4-107	AP	EQ	N	C
PGIDM1930FCZ2	572 345 3667	4-106	AT	EZ	N	C
PGIDM1931FCZZ	572 345 3637	4- 91	AZ	FQ	N	C
PGIDM1932FCZ3	572 345 3668	1- 1	BK	HC	N	C
PGIDM1933FCZ3	572 345 3669	2- 19	AZ	FQ	N	C
PGIDM1934FCZ1	572 345 3670	4- 8	AE	DS	N	C
PGIDM1936FCZ1	572 345 3671	4- 17	AZ	FQ	N	C
PGIDM1937FCZ1	572 345 3672	3- 29	AR	EQ	N	C
PGIDM1938FCZ2	572 345 3673	3- 28	AS	EQ	N	C
PGIDM1946FCZ3	572 345 3674	4-108	AS	EZ	N	C
PGIDM1947FCZ1	572 345 3652	2- 22	AY	FQ	N	C
PGIDM1948FCZ1	572 345 3653	2- 2	BH	HC	N	C
PGIDM1962FCZ1	572 345 3676	4- 10	AN	EG	N	C
PGUMS0292FCZZ	572 352 0334	4-120	AK	DX	N	C
PMLT-1248FCZ2	572 375 1005	2- 18	AA	DJ	N	C
PMLT-1249FCZZ	572 375 0989	3- 25	AA	DJ	N	C
PMLT-1250FCZZ	572 375 0990	4-110	AC	DJ	N	C
PMLT-1251FCZZ	572 375 0991	4-109	AA	DJ	N	C
PMLT-1252FCZZ	572 375 0992	4- 92	AB	DJ	N	C
PMLT-1253FCZZ	572 375 0993	4-157	AB	DJ	N	C
PMLT-1254FCZ3	572 375 0994	4- 11	AC	DJ	N	C
PMLT-1269FCZZ	572 375 0999	3- 16	AC	DJ	N	C
PMLT-1273FCZZ	572 375 1001	3- 93	AB	DJ	N	C
PMLT-1274FCZZ	572 375 0997	2- 11	AC	DJ	N	C
PSHEP4861FCZZ	572 403 5013	3- 72	AB	DJ	N	C
PSHEP4894FCZ1	572 403 5046	2- 7	AD	DJ	N	C
PSHEP4896FCZZ	572 403 5016	1- 41	AB	DJ	N	C
"	572 403 5016	2- 63	AB	DJ	N	C
PSHEP4897FCZZ	572 403 5017	3- 38	AC	DJ	N	C
PSHEZ4869FCZZ	572 403 5020	1- 73	AC	DJ	N	C
PSHEZ4870FCZZ	572 403 5021	4- 37	AB	DJ	N	C
PSHEZ4871FCZ1	572 403 5022	3- 77	AD	DJ	N	C
PSHEZ4900FCZZ	572 403 5024	1- 32	AD	DJ	N	C
PSHEZ4901FCZZ	572 403 5025	4- 63	AB	DJ	N	C
PSHEZ4909FCZZ	572 403 5027	1- 22	AB	DJ	N	C
PSHEZ4936FCZ1	572 403 5048	2- 5	AF	DS	N	C
PSHEZ4952FCZZ	572 403 5033	1-100	AB	DJ	N	C
PSHEZ4958FCZZ	572 403 5049	2- 73	AC	DJ	N	C
PSHEZ4959FCZ1	572 403 5050	4-165	AC	DJ	N	C
PSHEZ4961FCZZ	572 403 5052	3- 94	AC	DJ	N	C
[Q]						
QSW-M0502FCZZ	572 530 0603	1- 44	AH	DX		B
"	572 530 0603	3- 50	AH	DX		B
QSW-Z0524FCZ2	572 530 0693	2- 29	AZ	FQ	N	B
QSW-Z0528FCZ2	572 530 0695	4- 19	AZ	FQ	N	B
[R]						
RMOTS0868FCZZ	572 630 1060	1- 63	BQ	LP	N	B
RMOTS0870FCZZ	572 630 1062	4- 73	BK	HG	N	B
RMOTS0871FCZZ	572					

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			Ex.	Ja.		
RPLU-0340FCZZ	572 647 0378	2- 31	AY	FG	N	B
RPLU-0341FCZZ	572 647 0379	1- 17	AW	FG	N	B
"	572 647 0379	1- 90	AW	FG	N	B
RPLU-0344FCZZ	572 647 0381	1- 99	AZ	FX	N	B
RPLU-0348FCZZ	572 647 0382	4-124	AW	FG	N	B
[S]						
SPAK-545ECCZZ	500 900 0006	5- 3	AA	DD		D
SPAKA6179FCZ1	572 902 1633	5- 2	AZ	FG	N	D
SPAKA6180FCZZ	572 902 1634	5- 8	BA	FX	N	D
SPAKA6190FCZZ	572 902 1626	5- 10	AG	DX	N	D
SPAKA6195FCZZ	572 902 1628	5- 4	AD	DJ	N	D
SPAKC6170FCZZ	572 901 1777	5- 9	BG	GT	N	D
SSAKA0006UCZZ	541 906 1016	5- 1	AA	DD	N	D
[T]						
TLABZ4454FCZZ	572 917 3582	1- 87	AL	EB	N	D
TLABZ4708FCZZ	572 917 3595	5- 14	AE	DS	N	C
[V]						
VHPGP1A73A+-1	572 568 0112	1- 28	AG	DX		B
"	572 568 0112	2- 37	AG	DX		B
"	572 568 0112	3- 8	AG	DX		B
"	572 568 0112	3- 62	AG	DX		B
"	572 568 0112	3- 84	AG	DX		B
"	572 568 0112	4- 62	AG	DX		B
"	572 568 0112	4- 95	AG	DX		B
"	572 568 0112	4-125	AG	DX		B
[X]						
XBBSD30P04000	541 970 5027	1- 20	AA	DD		C
"	541 970 5027	1- 98	AA	DD		C
"	541 970 5027	4-148	AA	DD		C
XBBSD30P06000	541 970 5028	1- 48	AA	DD		C
"	541 970 5028	2- 32	AA	DD		C
"	541 970 5028	3- 78	AA	DD		C
"	541 970 5028	4- 33	AA	DD		C
"	541 970 5028	4-151	AA	DD		C
XBPSD30P08KS0	541 970 1097	2- 51	AA	DD		C
XEBSD30P06000	578 970 0102	4- 6	AA	DD		C
XEBSD30P08000	578 970 0105	1- 30	AA	DD		C
"	578 970 0105	3- 21	AA	DD		C
"	578 970 0105	3- 64	AA	DD		C
"	578 970 0105	4-139	AA	DD		C
"	578 970 0105	4-159	AA	DD		C
XEBSD30P14000	572 970 1675	4- 31	AA	DD		C
XEBSE30P08000	595 970 0121	2- 4	AA	DD		C
XEBSE40P10000	572 970 0575	1- 70	AA	DD		C
"	572 970 0575	2- 53	AA	DD		C
"	572 970 0575	3- 17	AA	DD		C
"	572 970 0575	4- 39	AA	DD		C
"	572 970 0575	4- 75	AA	DD		C
"	572 970 0575	4-145	AA	DD		C
XHBSD30P16000	595 970 0166	3- 48	AA	DD		C
XHBSD30P35000	578 970 0149	3- 74	AA	DD		C
"	578 970 0149	4- 72	AA	DD		C
XHBSE30P06000	578 970 0070	3- 58	AA	DD		C
"	578 970 0070	3- 82	AA	DD		C
XHBSE30P08000	595 970 0163	1- 92	AA	DD		C
"	595 970 0163	2- 49	AA	DD		C
"	595 970 0163	3- 3	AA	DD		C
"	595 970 0163	3- 68	AA	DD		C
"	595 970 0163	4-142	AA	DD		C
"	595 970 0163	4-146	AA	DD		C
"	595 970 0163	4-150	AA	DD		C
XHBSE30P10000	595 970 0164	2- 8	AA	DD		C
XHBSE40P08000	572 970 0539	5- 5	AA	DD		C
XHBSE40P10000	595 970 0167	1- 4	AA	DD		C
"	595 970 0167	1- 10	AA	DD		C
"	595 970 0167	2- 66	AA	DD		C
"	595 970 0167	3- 6	AA	DD		C
"	595 970 0167	4- 18	AA	DD		C
"	595 970 0167	4- 42	AA	DD		C
XRESP40-06000	509 399 5001	1- 6	AA	DD		C
"	509 399 5001	3- 88	AA	DD		C
XRESP50-06000	572 399 0063	1- 35	AA	DD		C
"	572 399 0063	2- 27	AA	DD		C
"	572 399 0063	3- 14	AA	DD		C
"	572 399 0063	3- 33	AA	DD		C
"	572 399 0063	3- 35	AA	DD		C
"	572 399 0063	3- 55	AA	DD		C
"	572 399 0063	4- 2	AA	DD		C
"	572 399 0063	4- 23	AA	DD		C
"	572 399 0063	4- 54	AA	DD		C
"	572 399 0063	4- 79	AA	DD		C

PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R.		NEW	P/R
			Ex.	Ja.		
XRESP50-06000	572 399 0063	4- 87	AA	DD		C
"	572 399 0063	4-104	AA	DD		C
"	572 399 0063	4-111	AA	DD		C
"	572 399 0063	4-113	AA	DD		C
"	572 399 0063	4-141	AA	DD		C
XRESP60-08000	541 399 5003	2- 44	AA	DD		C
XRESP70-08000	571 399 0027	1- 40	AA	DD		C
"	571 399 0027	3- 13	AA	DD		C
"	571 399 0027	3- 54	AA	DD		C
"	571 399 0027	4- 51	AA	DD		C
"	571 399 0027	4- 64	AA	DD		C
"	571 399 0027	4- 98	AA	DD		C
"	571 399 0027	4-137	AA	DD		C
[0]						
0EUARM0602L//	572 240 0342	1- 76	AH	DX	N	C
0EUBRG0313L//	572 272 0629	4-112	AP	EQ	N	C
"	572 272 0629	4-117	AP	EQ	N	C
0EUGER0417L//	572 281 1843	1- 39	AF	DS		C
"	572 281 1843	2- 71	AF	DS		C
"	572 281 1843	4- 13	AF	DS		C
0EULAB0404K//	572 917 3270	5- 12	AD	DJ		C
0EUPLY0412M//	572 284 0734	2- 62	AE	DS		C
"	572 284 0734	3- 57	AE	DS		C
0EURNGE050-//	572 399 0220	2- 24	AB	DJ		C
"	572 399 0220	4- 36	AB	DJ		C
"	572 399 0220	4-128	AB	DJ		C
0EURÖL0365L//	572 287 1983	4- 27	AE	DJ	N	C

CAUTION FOR BATTERY REPLACEMENT

(Danish) **ADVARSEL !**
Lithiumbatteri - Eksplorationsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) **Caution !**
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) **VAROITUS**
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) **ATTENTION**
Il y a danger d'explosion s'il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) **VARNING**
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekivalent
typ som rekommenderas av apparat tillverkaren.
Kassera använt batteri enligt fabrikantens
Instruktion.

(German) **Achtung**
Explosionsgefahr bei Verwendung inkorrekt Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA,CANADA)
Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

SHARP

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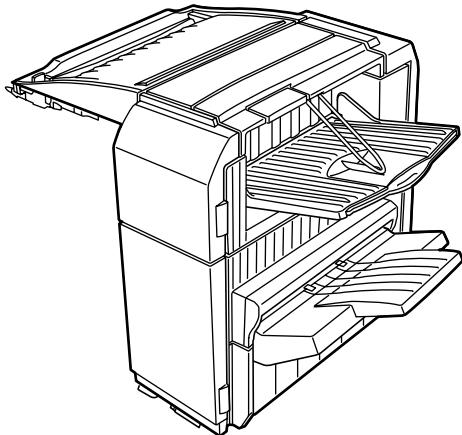
SHARP CORPORATION
Digital Document Systems Group
Quality & Reliability Control Center
Yamatokoriyama, Nara 639-1186, Japan

2001 May Printed in Japan (t)

SHARP SERVICE MANUAL

CODE : 00ZARFN6//A1E

AR-FN6



LASER PRINTER OPTIONS FINISHER

MODEL

AR-FN6

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Parts marked with “” are important for maintaining the safety of the set.

Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

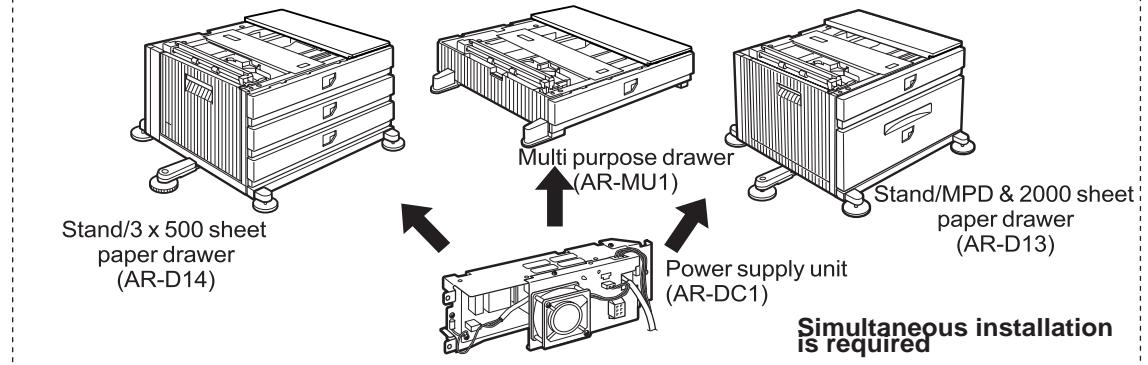
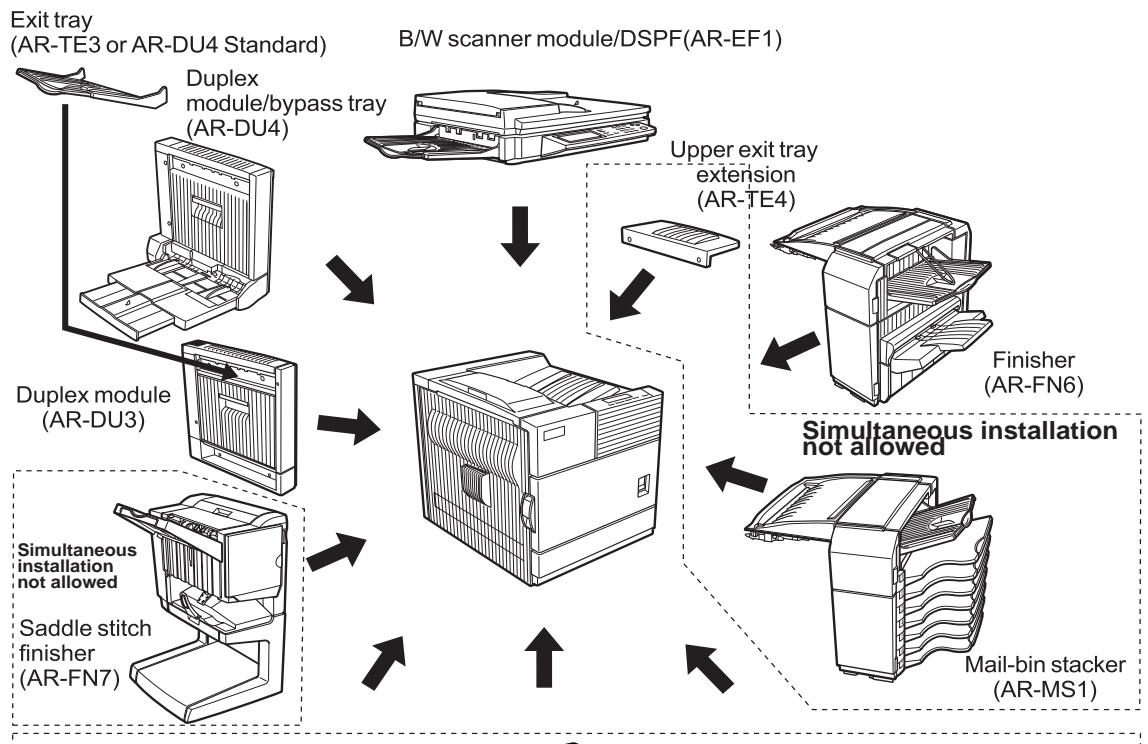
[1] PRODUCT OUTLINE

This unit is installed to one of the following machines to serve as an after-process unit of output paper of a printer, copier or FAX machine.
 This unit allows to shift each bundle of paper printed in the page sequence or sorted by each page.
 It also allows to staple a bundle of paper sorted in the page sequence.

Applicable models AR-P350 / P450, AR-M350 / M450

[2] CONFIGURATION

1. Before installing this unit, one of the multi-purpose tray (AR-MU1), the large capacity paper feed desk (AR-D13), and the 3-stage paper feed desk (AR-D14) must be installed in advance.
2. When this unit and the AR-MU1 are installed, the option power unit (AR-DC1) must be installed together.
3. This unit cannot be installed together with the male bin stacker (AR-MS1) and the upper exit tray extension (AR-TE4).



Output units	B/W scanner module/DSPF	Scanner rack	Multi purpose drawer	Stand/3 x 500 sheet paper drawer	Stand/MPD & 2000 sheet paper drawer	Duplex module/bypass tray	Duplex module	Saddle stitch finisher	Finisher	Mail-bin stacker	Exit tray	Upper exit tray extension	Punch unit	Multi-function controller board	Print server card	PS3 expansion kit	Network scanner expansion kit	Facsimile expansion kit	Fax memory (8 MB)	Power supply unit	Hard disk drive
Finisher			<input checked="" type="radio"/> ¹					<input checked="" type="radio"/>	<input checked="" type="radio"/>		<input checked="" type="radio"/>	<input checked="" type="radio"/>						<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

¹ =Any of the units must be installed together.

[3] SPECIFICATIONS

1. Basic

Type	Desktop type finisher with dual exit tray	
Transport speed	To support 35-45 sheet/minute	
Transport alignment	Center alignment	
Tray type (No. of tray)	Upper tray	EXIT tray
	Lower Tray	Ascent/descent type offset tray
Output paper capacity	Upper tray	500 sheets sheets (A4/8.5"x11", 80g/m ²)
	Lower Tray	750 sheets (A4/8.5"x11", 80g/m ²)
Output paper delivery	Face-down	
Output paper size	Upper tray	A3, B4, A4, A4R, B5, B5R, A5R 11"x17", 8.5"x14", 8.5"x13", 8.5"x11", 8.5"x11"R, 5.5"x8.5"R, Executive, Japanese post card, Monarch(98x191),Com-10(105x241), DL(110x220),C5(162x229), ISO B5(176x250)
Spec of media for paper output	Upper tray	Tracing paper:52-59g/m ² / 14-15lbs Plain paper:60-128g/m ² / 16-34lbs Index paper:176g/m ² / 47lbs Cover paper:205g/m ² / 54-55lbs Transparency
	Lower Tray	Plain 60-128g/m ² / 16-34lbs
Remaining paper detection	Upper tray	Not provided
	Lower Tray	Provided
Exit tray full detection	Upper tray	Provided
	Lower tray	Provided
Power consumption	Less than about 67.3W	
Power source	Supplied from the optional power source (AR-DC1) (DC24V 2.7A / DC5V 0.5A)	
External dimensions(WxDxH)	460 x 530 x 508 (mm)	
Occupied dimensions(WxD)	460 x 530 (mm)	
Weight	Approx. 21kg	

2. Staple parts

Offset stack	Offset volume:25mm	
Paper size to be stapled	A4, B5, 8.5"x11"	
Ability of stapler (Max. # of pages for staple)	30 sheets (smaller than A4/8.5"x11", 80g/m ²)	
Stapling pattern	3 patterns (front 1/rear 1/both)	
Stacking performance	Offset	Horizontal displacement: Less than 15mm (Less than 10mm up to 250 sheets) Vertical displacement: Less than 15mm (In the non-staple mode on the offset tray)
Matching	Max. deviation width	Within 2mm (In the staple mode on the offset tray)
Staple supply	Refill system	
Staple detection	Staple empty	Provided
	No cartridge	Provided
	Staple jam	Provided
Kinds of paper which cannot be stapled	Pre-punched paper, transparency film, heavy paper, label, envelope, postcard	

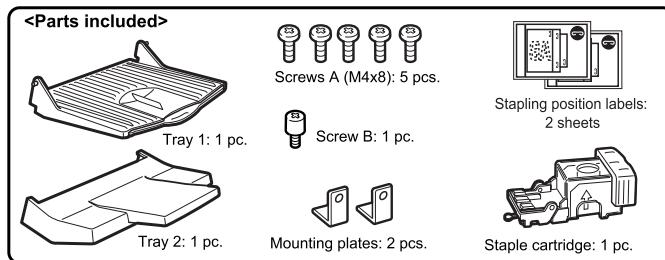
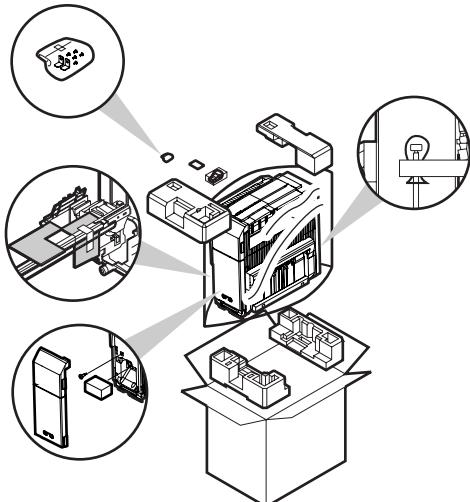
3. Consumable parts

Name	Content	Life	Product name	Remark
Staple cartridge	Staple cartridge x3	3000x3	AR-SC1	Common with cartridge for AR-FN4 & AR-FN6

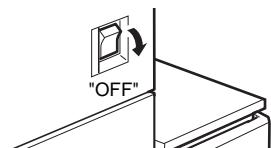
[4] UNPACKING AND INSTALLATION

<Before installation>

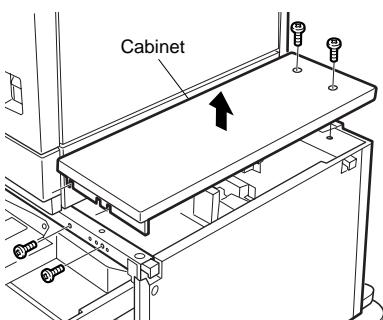
- Start installation after checking that the DATA and COMMUNICATION indicators on the operation panel are neither lit nor blinking.
- For installation of AR-FN6, an optional stand/paper drawer (stand/MPD & 2000 sheet paper drawer, stand/3 x 500 sheet paper drawer or multi purpose drawer) must have been installed.
- Also if a multi purpose drawer has been installed, a power supply unit (AR-DC1) is needed additionally.



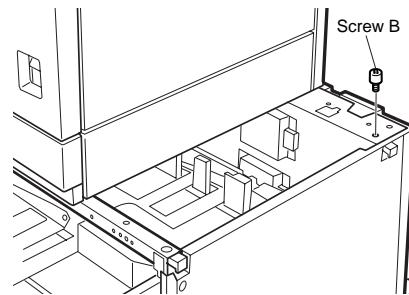
- 1) Turn off the main switch of the main unit of the printer.
Turn the main switch located on the front side of the main unit to the "OFF" position.
Then, remove the power plug of the main unit from the outlet.



- 2) Remove the upper cabinet of the stand/paper drawer.
<1> Pull out the paper tray of the stand/paper drawer.
Remove the four screws attached to the right on the top of the stand/paper drawer and remove the cabinet.

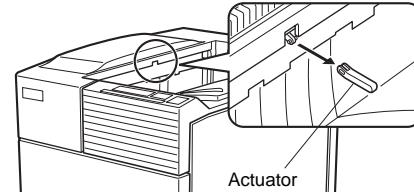


<2> Mount screw B to the position shown in the illustration.

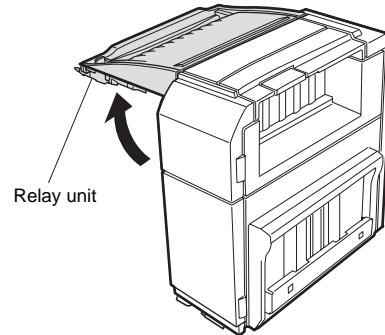


3) Attach the finisher.

<1> Remove the paper exit actuator from the main unit of the printer.



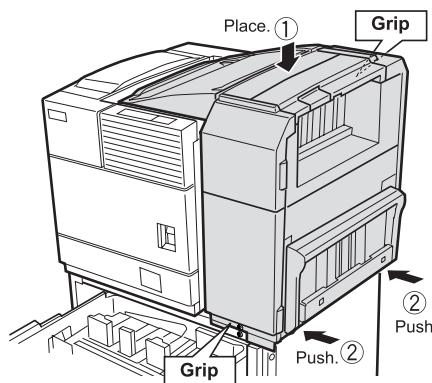
<2> Raise the relay unit at the side of the finisher.



<3> Hold the grip of the finisher and place the finisher on the stand/paper drawer temporarily.

Then, push the lower part to attach the finisher by sliding it toward the exit tray of the main unit.

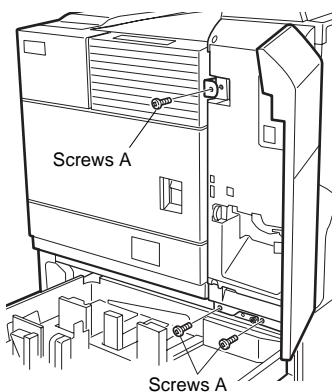
At this time, align the finisher with the exterior line of the stand/paper drawer.



<4>Open the front cover of the finisher and fix the finisher with three screws A at the positions shown in the illustration.

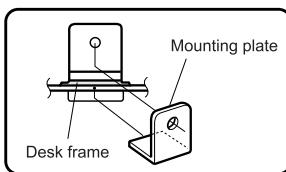
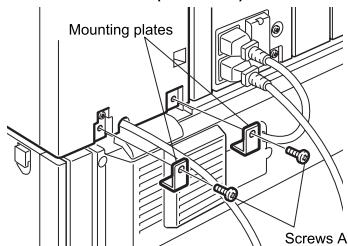
Then, close the front cover and close the paper tray of the stand/paper drawer.

(Front side)



<5>Attach the mounting plates to the positions shown in the illustration and fix them with screws A.

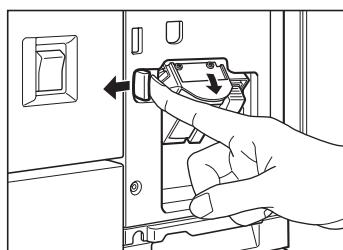
(Rear side)



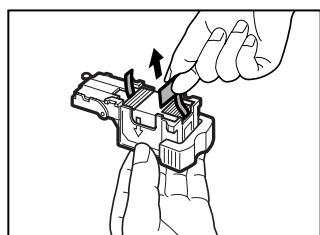
Caution: Insert the mounting plate under the desk frame.

4) Insert the staple cartridge.

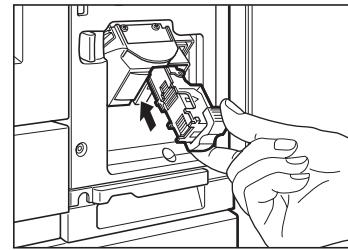
<1>Pull out the staple unit.



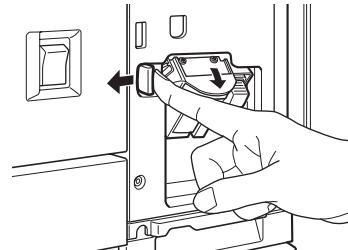
<2>Remove the sealing tape from the staple cartridge.



<3>Insert the staple cartridge.

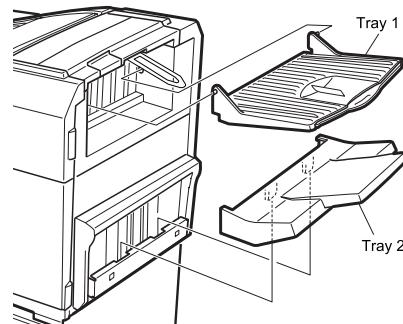


<4>Slide the release lever to the left and return the staple unit.



5) Attach the trays.

Attach tray 1, tray 2 to the positions shown in the illustration.



Steps 6) and after are the procedure to be carried out when a multi purpose drawer has been installed.

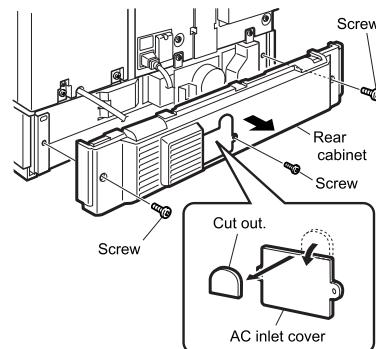
If a stand/MPD & 2000 sheet paper drawer or a stand/3 x 500 sheet paper drawer has been installed, carry out steps 9).

6) Process the AC inlet cover attached to the rear cabinet of the stand/paper drawer.

<1>Remove the two screws that secure the rear cabinet and remove the rear cabinet.

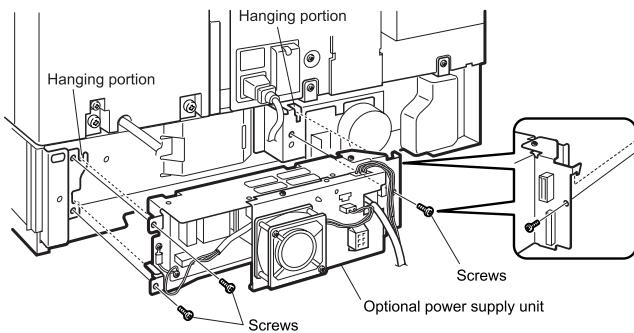
<2>Remove the screw that fixes the AC inlet cover and then remove the AC inlet cover.

Process the AC inlet cover as shown in the illustration.



7) Attach the power supply unit.

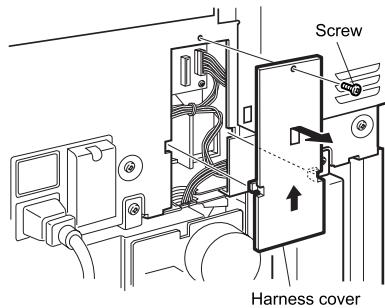
Attach the power supply unit to the hanging portions and secure it using the supplied three screws.



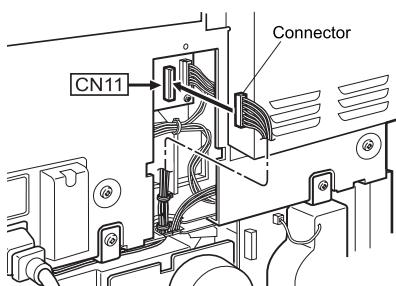
8) Connect the power supply unit harness to the PCU PWB of the main unit of the printer.

<1> Remove the screw that fixes the harness cover of the main unit of the printer and slide the harness cover up to remove it.

Process the harness cover as shown in the illustration.

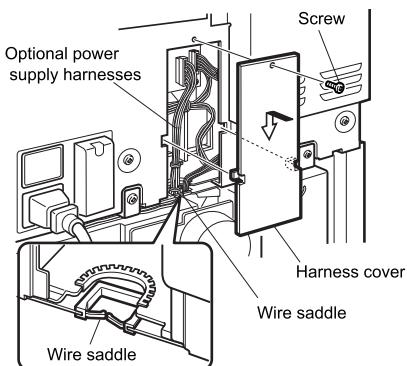


<2> Connect the power supply unit harness connector to CN11 (red connector) of the PCU PWB of the main unit of the printer.



<3> Reattach the harness cover to its original position and fix it with the removed screw.

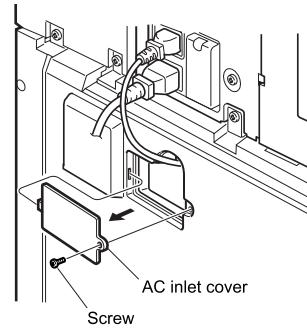
At this time, ensure that the power supply unit harness is arranged as shown in the illustration.



* Fix the harness securely to the wire saddle.

9) Remove the AC inlet cover and then remove the rear cabinet of the stand/paper drawer.

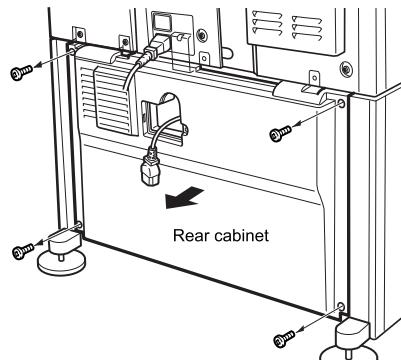
<1> Remove the screw that fixes the AC inlet cover and then remove the AC inlet cover.



(* Similar work for the multi purpose drawer)

<2> Remove the AC cord of the power supply unit from the inlet connector of the main unit of the printer.

Remove the four screws that fix the rear cabinet and then remove the rear cabinet.

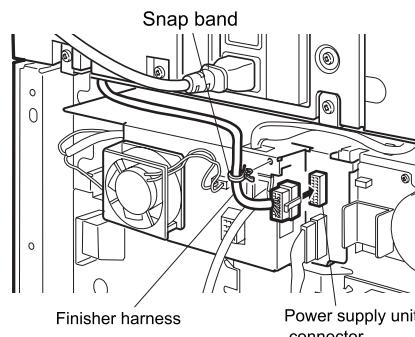


(* Similar work for the multi purpose drawer)

10) Arrange the harness of the finisher.

<1> Pass the harness of the finisher between the power supply unit and the frame of the stand/paper drawer and connect it to the connector of the power supply unit.

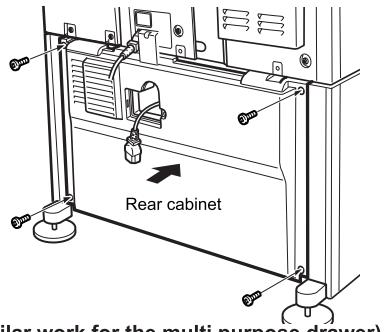
<2> Fit the snap band attached to the finisher at the position shown in the illustration to fix the harness.



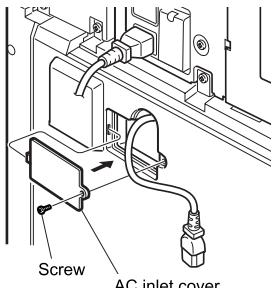
(* Similar work for the multi purpose drawer)

11) Attach the rear cabinet of the stand/paper drawer.

<1>Pass the AC cord of the power supply unit as shown in the illustration and fix the rear cabinet of the stand/paper drawer with the screws.

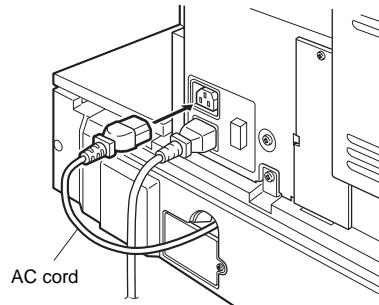


<2>Attach the AC inlet cover to the rear cabinet of the stand/paper drawer and fix it with the removed screw.



12) Connect the AC cord of the optional power supply unit to the main unit of the printer.

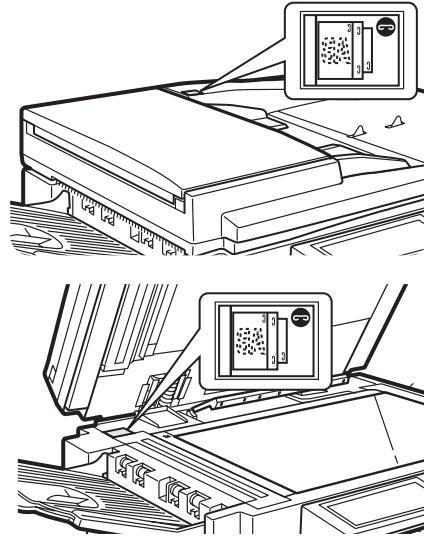
<1>Connect the AC cord of the power supply unit to the inlet connector of the main unit of the printer at the location shown in the illustration.



13) Paste the stapling position label.

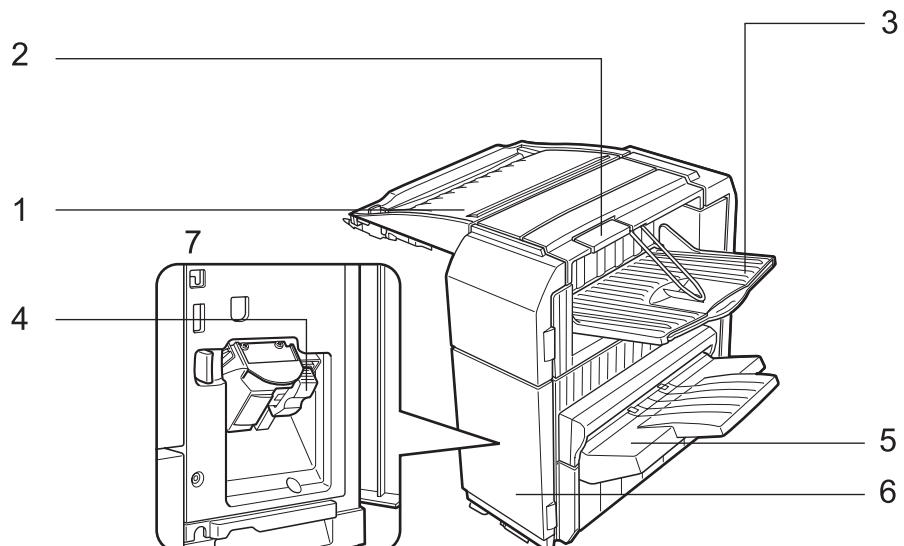
(Paste it only if the scanner module is installed.)

Paste the label to the position shown in the illustration.



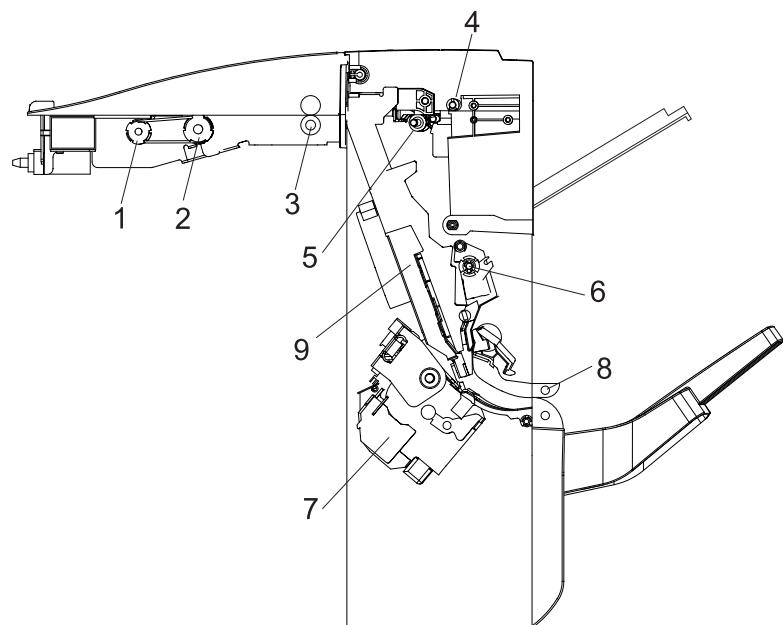
[5] EXTERNAL VIEWS AND INTERNAL STRUCTURES

A. External view



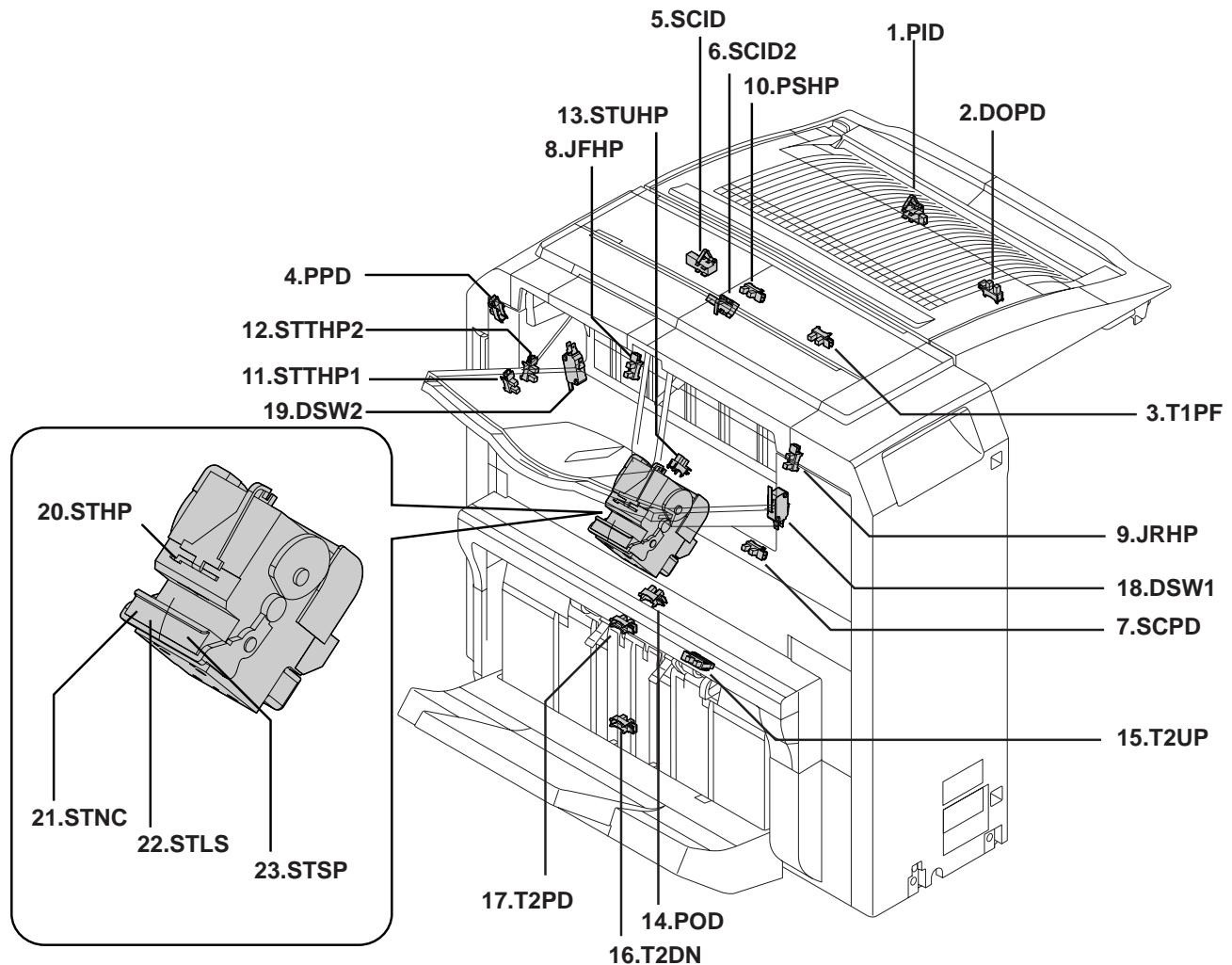
1	Top cover	2	SF Knob	3	Top tray	4	Staple cartridge
5	Offset tray	6	Front door	7	Staple unit		

B. Internal structure



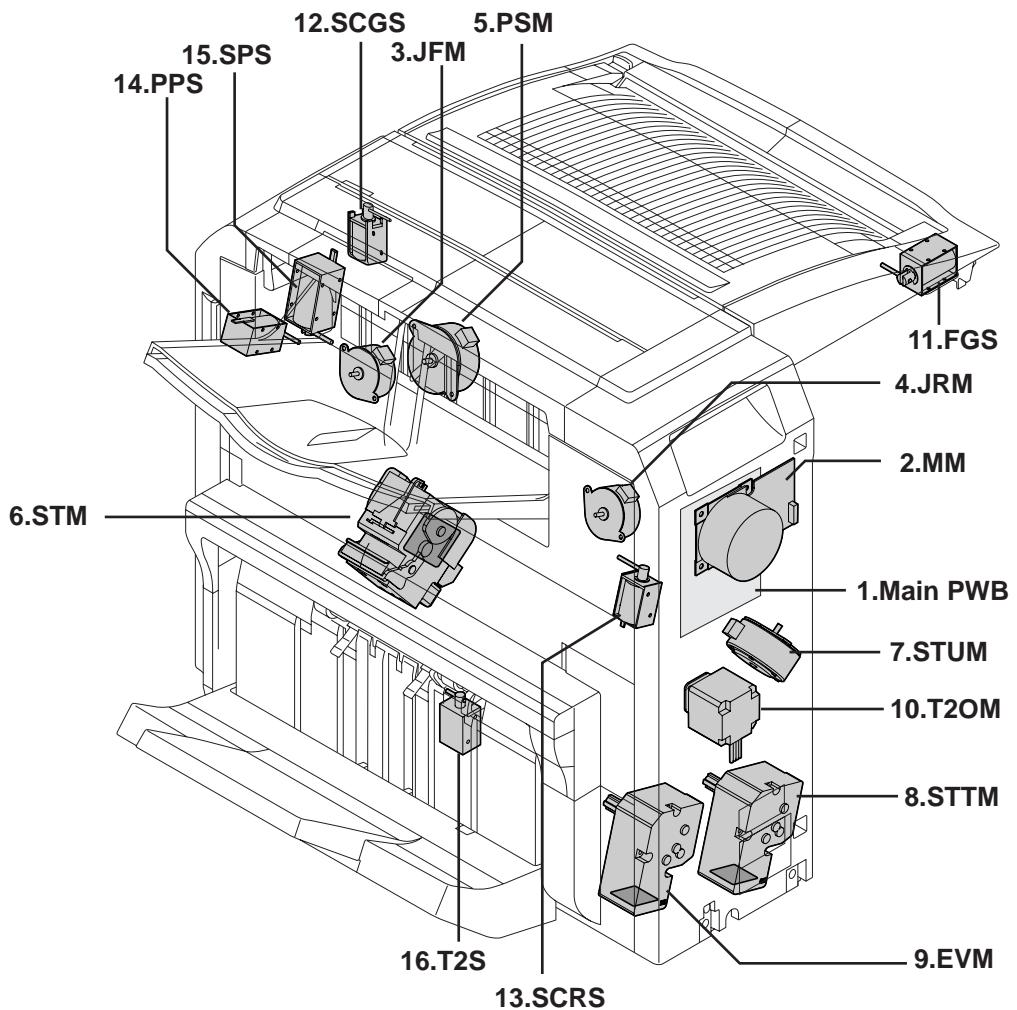
1	Finisher transport roller R1	2	De-curler roller	3	Transport roller R2
4	No.1 tray paper exit roller	5	S paper entry roller	6	Transport roller R2
7	Stapler unit	8	Lower tray paper exit roller	9	Alignment tray

C.Sensor



	Code	Name	Function	Active condition	Remark
1	PID	Paper In Detect Sensor	Detection of paper entry into the interface transport section	L : Paper loaded	
2	DOPD	Door Open Detect Sensor	Upper side cover open/close detection	L : Door open	
3	T1PF	Tray 1 Paper Full Detect Sensor	Upper side tray paper exit full detection	L : Paper full	
4	PPD	Paper pushl Detect Sensor	Detection of paper holding return in the compiler	H : Home position	
5	SCID	Staple Compiler In Detect Sensor 2	Staple paper entry detection	L : Paper loaded	
6	SCID2	Staple Compiler In Detect Sensor	Staple paper entry detection	L : Paper loaded	
7	SCPD	Staple Compiler Paper Detect Sensor	Paper detection in the compiler	L : Paper loaded	
8	JFHP	Jogger Front Home Position Sensor	Jogger F home position detection	H : Home position	
9	JRHP	Jogger Rear Home Position Sensor	Jogger R home position detection	H : Home position	
10	PSHP	Pushher Home Position Sensor	Pusher home position detection	H : Home position	
11	STTHP1	Staple Turn Home Position Sensor 1	Staple rotation home position detection		Detected by combination of STTHP1 and STTHP2
12	STTHP2	Staple Turn Home Position Sensor 2	Staple rotation home position detection		
13	STUHP	Staple Turn Home Position Sensor	Staple shift home position detection	H : Home position	
14	POD	Paper Out Detect Sensor	Paper exit detection	L : Paper loaded	
15	T2UP	Tray 2 Upper Detect Sensor	Offset tray upper limit position detection	H : Upper limit	
16	T2DN	Tray 2 Down Detect Sensor	Offset tray lower limit position detection	H : Lower limit	
17	T2PD	Tray 2 Paper Detect Sensor	Offset tray paper empty detection	L : Paper loaded	
18	DSW1	Door Switch 1	Right upper door open/close detection	L : Door open	
19	DSW2	Door Switch 2	Front door open/close detection	L : Door open	
20	STHP	Stapler Home Position Sensor	Stapler home position detection	L : Home position	
21	STNC	Stapler No Cartridge Sensor	Stapler cartridge empty detection	H : Empty	
22	STLS	Stapler Low Staple Sensor	Stapler staple empty detection	H : Empty	
23	STSP	Stapler Self Priming Sensor	Stapler staple ready position detection	L : Ready	

D. Motor, Clutch, Solenoid, PWB



	Code	Name	Function	Remark
1	Main PWB	Main Control PWB	Communication with the machine, control of the machine operations	
2	MM	Main Motor	Drives transport rollers	
3	JFM	Jogger Front Motor	F side alignment plate drive	
4	JRM	Jogger Rear Motor	R side alignment plate drive	
5	PSM	Pusher Motor	Pusher drive	
6	STM	Staple Motor	Staple drive	
7	STUM	Staple Unit Motor	Stapler shift	
8	STTM	Staple Unit Turn Motor	Stapler rotation	
9	EVM	Elevator Motor	Offset tray up-down shift	
10	T2OM	Tray 2 Output Motor	Drive of paper exit paddler to offset tray	
11	FGS	Finisher Gate Solenoid	Paper entry gate selection	
12	SCGS	Staple Compiler Gate Solenoid	Staple paper entry gate selection	
13	SCRS	Staple Compiler Rotor Solenoid	Belt roller press/release selection	
14	PPS	Paper Push Solenoid	Paper rear edge holding drive selection	
15	SPS	Stopper Solenoid	Stopper drive selection	
16	T2S	Tray 2 Solenoid	Paper exit paddler drive selection	

[6] MACHINE OPERATION

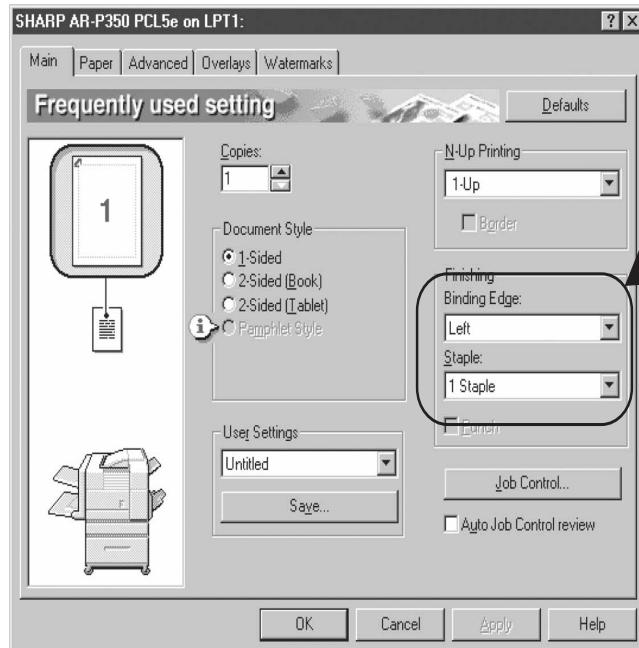
1. Using the stapling function from the printer feature

When using the stapling function, select "Properties" on the printer driver setting screen, open the "Main" tab shown in the right illustration, and then select "Left", "Right" or "Top" at "Binding Edge" and "1 Staple" or "2 Staples" in the "Staple" drop down.

NOTES:

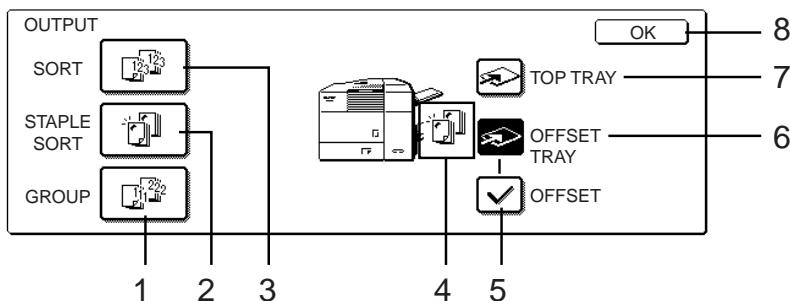
- The settings screens above will appear only if the devices have been set properly in the printer driver.
- The combination of paper selection and other functions may not be compatible. For instance, if heavy paper, envelopes, label stock, etc. are selected, it will not be possible to select duplex, offset tray, saddle stitch, etc.

The illustration below shows the screen for a PCL printer driver in the Windows 98 environment.



2. Using the finisher functions in the copy mode

If you touch the [OUTPUT] key on the copy mode basic screen, a screen for selecting the sort/group/staple sort functions and selecting an exit tray will appear.



1 : [GROUP] key

If this function is selected, all copies of the same original will be grouped.

2 : [STAPLE SORT] key

If this function is selected, sorted copies will be stapled and delivered to the offset tray. (not offset stacked)

3 : [SORT] key

If this function is selected, each set of copies will be sequentially delivered.

4 : Icon display

The icon of the selected function (sort, staple sort or group) is displayed.

5 : [OFFSET] key

If this function is selected (checked), the offset function will be enabled. If the check mark is cleared, the offset function will be disabled. (If the staple sort function is selected, the check mark of the offset function will be automatically cleared.)

6 : [OFFSET TRAY] key

If the offset tray is selected, printed sheets will be delivered to the offset tray. (If the staple sort function is selected, the offset tray will be automatically selected.)

7 : [TOP TRAY] key

If the top tray is selected, printed sheets will be delivered to the top tray.

8 : [OK] key

Press to close this screen and to return to the basic screen.

* If a function is selected, the corresponding key will be highlighted.

3. Stapling position quick reference list

When stapling is performed, the orientation of image data or original is related to the stapling position, binding position and orientation of paper complicatedly. The table below shows the relation.

		Image data or original			Result	
		First page (front side)	Second page (reverse side)	Two sides		
Portrait orientation printing	Left binding	A1	B2	A1 and B2	One-position stapling	Two-position stapling
	Top binding	A1	B2	A1 and B2	One-position stapling	Two-position stapling with top binding cannot be made.
Landscape orientation printing	Right binding	A1	B2	A1 and B2	One-position stapling	Two-position stapling
	Left binding	A1	B2	A1 and B2	One-position stapling	Two-position stapling with left binding cannot be made.
Landscape orientation printing	Top binding	A1	B2	A1 and B2	One-position stapling	Two-position stapling
	Right binding	A1	B2	A1 and B2	One-position stapling	Two-position stapling with right binding cannot be made.

■ ■ ■ indicates stapling positions.

NOTES:

- When using the stapling function, select the offset tray as an exit tray. If another tray is selected, the stapling function cannot be used.
- Select only one paper size. If different sizes are included, stapling cannot be performed.

* The following types of paper cannot be stapled.

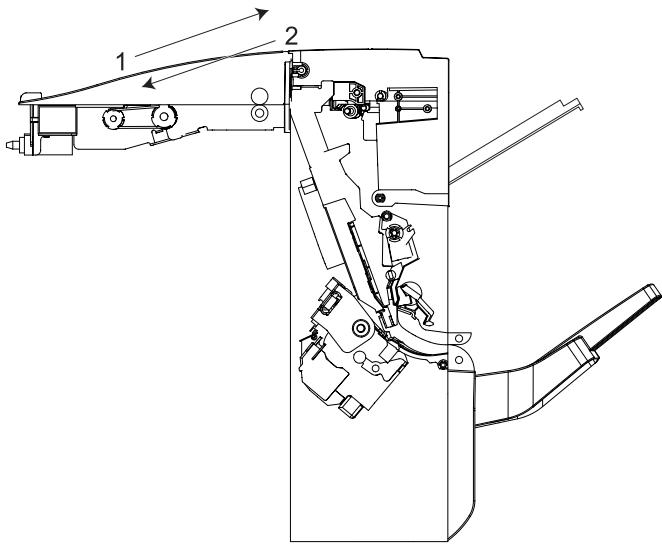
Pre-punched paper, transparency film, heavy paper, label, envelope, postcard

[7] OPERATIONAL DESCRIPTIONS

1. Paper transport path

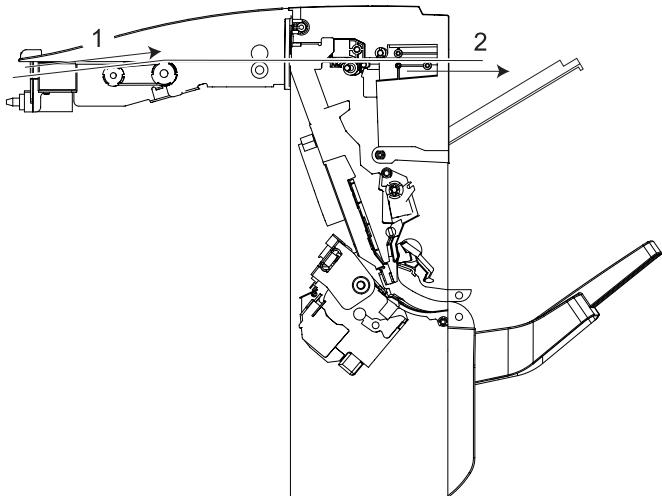
A. Machine paper exit reverse (Switchback)

When the duplex print or the left side paper exit tray is selected, paper is once discharged to the interface unit and then switched back.



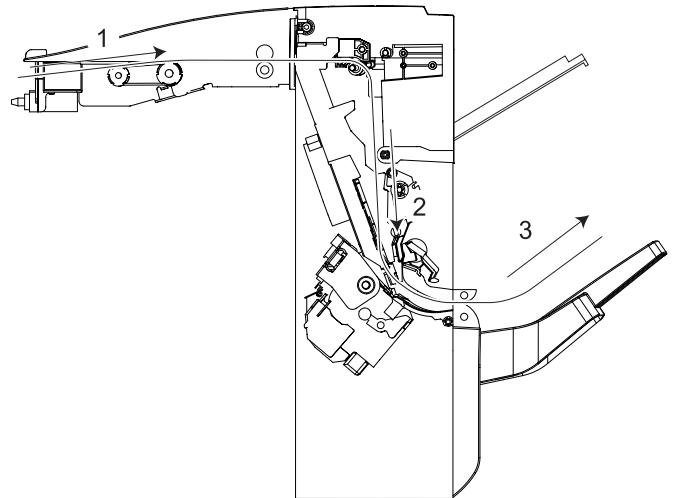
B. Paper exit to the upper tray

In the normal paper exit operation, paper is discharged to the upper tray.



C. Paper exit to the lower tray

When stapling or offset operation is performed, paper is discharged to the lower tray.

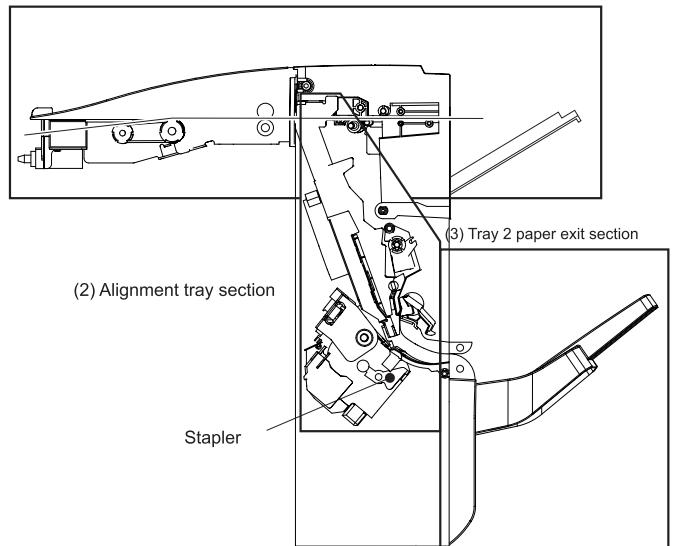


2. Descriptions of each section

The finisher is composed of (1) upper paper transport section, (2) alignment tray section, and (3) tray 2 paper exit section.

Offset and stapling (3 positions) can be performed with paper exit to tray 2 as well as the selected tray by the command from the machine.

(1) Upper paper transport section



A. Upper transport section

(1) Paper transport path

By rotating the main motor (MM), all the transport rollers in the unit (except for the tray 2 final roller) are driven.

(2) Interface unit paper entry gate

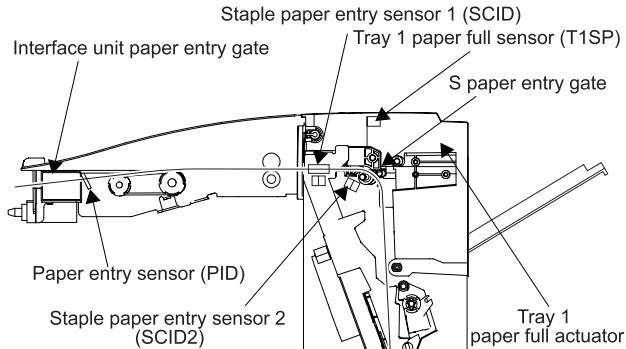
The finisher gate solenoid (FGS) operates the interface unit paper entry gate to perform machine paper exit reversion and selection of the paper path to the tray 1 and the tray 2.

(3) S paper entry gate

The compiler paper entry gate solenoid (SCGS) operates the S paper entry gate to select the paper path to the tray 1 or the tray 2.

(4) Tray 1 paper full detection

Tray 1 paper full detection is performed by the tray 1 paper full sensor (T1PF) in linkage with the tray 1 paper full actuator.



B. Alignment tray section

(1) Jogger F/R

The jogger F/R motors (JFM, JRM) are driven at the timing of paper entry into the alignment tray to operate the joggers F/R (alignment plates on both sides), making transverse alignment of paper.

(2) Pusher

The pusher motor (PSM) is driven at the timing of paper entry into the alignment tray to operate the pusher (upper alignment plate). Paper is squeezed with the pusher and the stopper which is provided at the lead edge of paper to make longitudinal alignment of paper. The pusher also serves to hold the rear edge of a paper bundle in order not to change the sequence of the next paper when it enters the alignment tray. It also pushes a stapled paper bundle to the tray 2 in the staple mode.

(3) Stopper

The stopper is driven by the stopper solenoid (SPS) to stop the lead edge of paper in order to hold paper in the alignment tray.

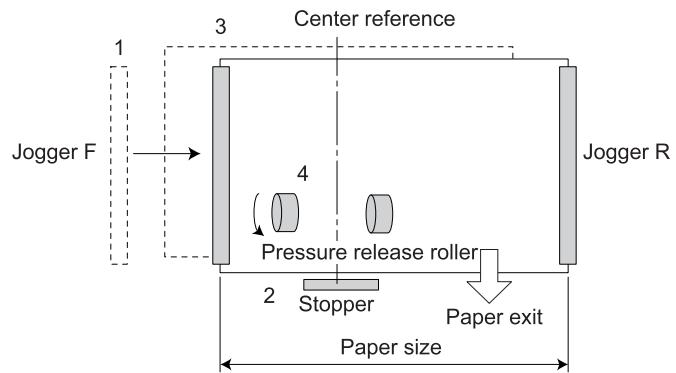
(4) Pressure release roller

The pressure release roller is driven by the pressure release solenoid (SCRS). It is pressed when paper is transported from the alignment tray to the tray 2. It also serves to improve longitudinal alignment capability when paper enters the alignment tray in the staple mode.

(5) Paper holder

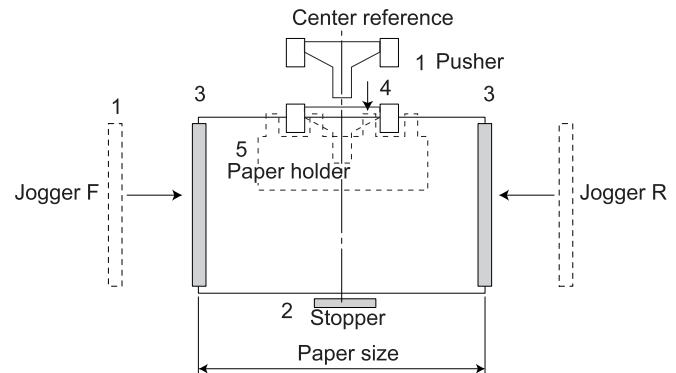
The paper holder is driven by the paper holder solenoid (PPS) to hold the rear edge of paper in the alignment tray.

(6) Alignment and paper exit in offset



- 1) The joggers F/R are moved to the standby position before paper entry into the alignment tray, and paper is passed to the alignment tray.
- 2) When paper is passed into the alignment tray, the stopper solenoid is turned on to receive paper.
- 3) After paper entry into the alignment tray, the joggers are moved to the suitable positions according to the paper size, and paper is offset.
- 4) The stopper solenoid is turned off and the pressure release (roller) solenoid is turned on to discharge paper to the tray 2.

(7) Alignment in stapling



- 1) Before paper entry into the alignment tray, the joggers F/R are moved to the standby position, and paper is entered into the alignment tray.
- 2) When paper enters the alignment tray, the stopper solenoid is turned on to receive paper.
- 3) After paper entry into the alignment tray, the joggers F/R are moved to the paper size positions to align paper.
- 4) The paper holder solenoid is turned on at the same time with (3) to hold the rear edge of entered paper, and the pusher is moved to the paper size position.
- 5) After completion of moving the pusher, the paper holder solenoid is turned off.

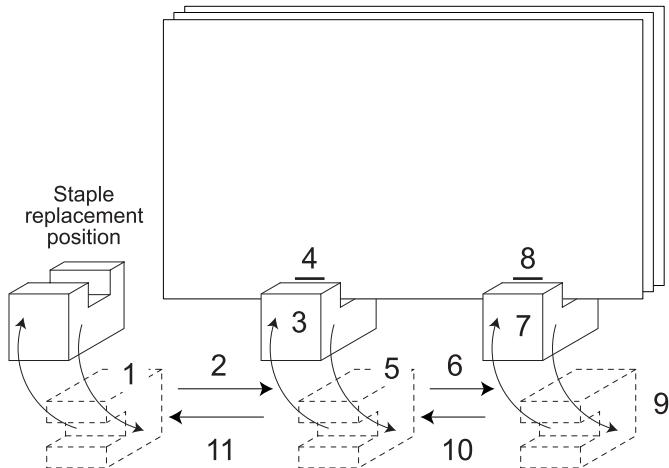
(8) Staple unit

The stapler staples paper. The ST shift motor slides the stapler horizontally with the paper lead edge according to the staple positions (forward, backward, 2 positions). The ST rotating motor (STTM) rotates the stapler from the save position to the stapling position, and can slide the staple replacement position horizontally and can discharge paper.

(9) Stapler

The stapler can staple max. 30 pages of 80g paper. It is composed of the drive DC motor (STM), the home position sensor (STHP), the staple empty sensor (STLS), the cartridge empty sensor (STNC), and the self-priming sensor (STSP) which detects a staplable position.

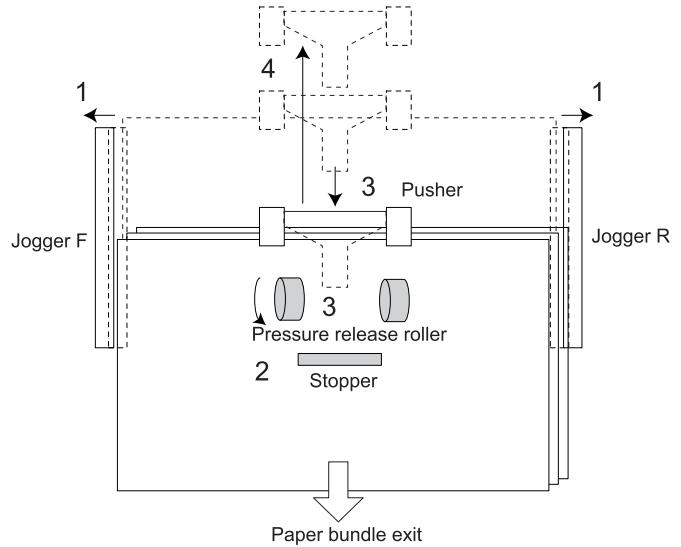
(10) Stapling



- 1) The stapler is moved from the staple replacement position to the slidable position.
- 2) The stapler is shifted to the stapling position.
- 3) The stapler is rotated to the stapling position.
Put paper to be stapled in the staple tray.
- 4) Paper is stapled.
- 5) The stapler is rotated to the standby position.
When in one-position stapling, a bundle of paper is discharged to the tray 2 (paper exit section), and the procedure goes to (10)
- 6) The stapler is shifted to the second stapling position.
- 7) The stapler is rotated to the stapling position.
- 8) Paper is stapled. (Second stapling)
- 9) The stapler is rotated to the standby position.
The bundle of paper is discharged to the tray 2 (paper exit section)
- 10) After completion of a job, the stapler is shifted to the staple replacement position.
- 11) The stapler is rotated to the staple replacement position.

For one-position stapling, however, procedures (6) - (10) are not performed.

(11) Paper exit after stapling



- 1) The joggers F/R are moved to the paper exit position.
- 2) The stopper solenoid is turned off.
- 3) The pressure release solenoid is turned on to shift the pusher to the paper exit position, and the paper bundle is discharged to the tray 2 paper exit section.
- 4) The pressure release solenoid is turned off and the pusher is returned to the home position.

C. Tray 2 paper exit section

(1) Paper transport

Only in paper exit to the tray 2, the final roller is driven by rotating the paper exit motor (T2OM).

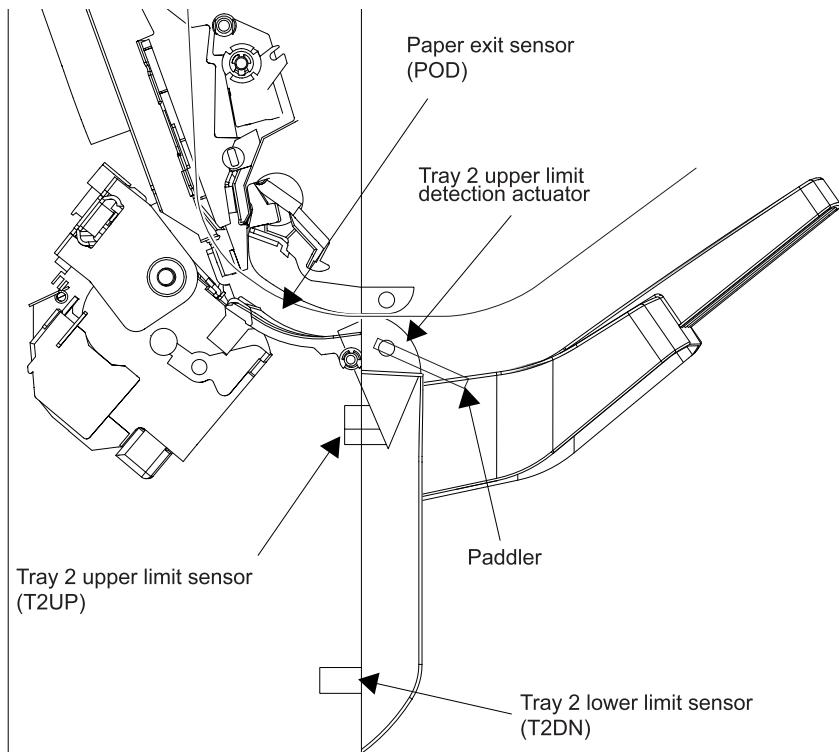
(2) Elevator operation and tray 2 paper full detection

The elevator motor is rotated to move the tray 2 up and down so that paper is discharged at the fixed position according to the quantity of paper loaded in the tray 2.

The tray 2 full is detected when both the tray 2 upper limit sensor which is linked with the tray 2 upper limit actuator and the tray 2 lower limit sensor are on.

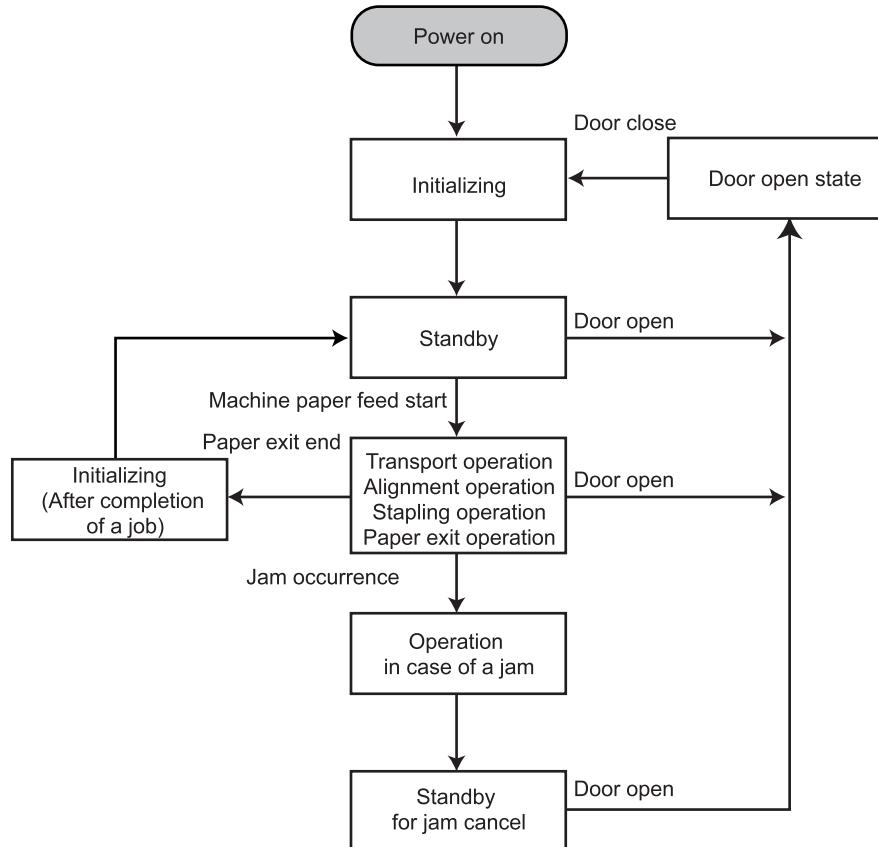
(3) Paddler operation/tray 2 upper limit detection actuator operation

When the paper exit motor is rotating, the tray 2 solenoid (T2S) is turned on so that the paddler is rotated to pull paper and pull the actuator toward the unit in order to improve the stacking capacity of paper loaded in the tray 2.



3. Basic operation

A. Basic operation flow

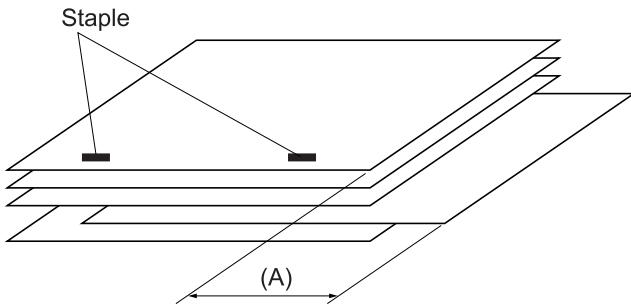


[8] ADJUSTMENTS

1. Jogger position adjustment

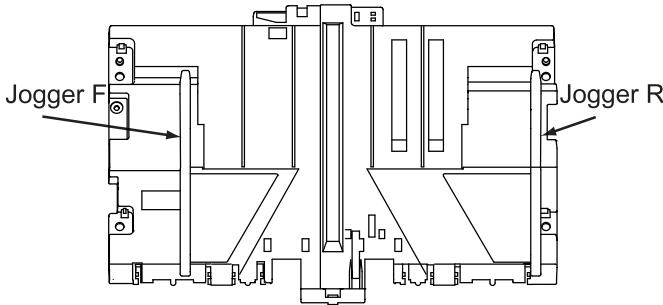
A. Jogger F/R

1) Staple 5 sheets of A4 or LT paper and check the paper shift (A) shown in the figure below.



2) If the shift (A) is less than 1mm, there is no need to adjust.
3) If the shift (A) is 1mm or greater, adjust as shown in the table below.

Model	Adjustment procedure
Printer model	DIAG MODE [FINISHER JOGGER ADJ.] (Finisher jogger position adjustment)
MFP	SIM 3-6(Built-in finisher jogger position adjustment)



B. Printer model adjustment procedure

1) In the DIAG MODE, select [FINISHER JOGGER ADJ.].

FINISHER JOGGER ADJ.

2) Press [OK] key, and the following display will be shown.
Use [△] key and [▽] key to change the adjustments value.
(Adjustment range: 40 - 60)

ADJUST VALUE
50

3) Change the adjustment value and press OK key, and the stopper will be turned on and the finisher joggers F/R will move to and stop at the positions shown in the table below.

Destination	Jogger position
Inch series	LT size alignment position
AB series	A4 size alignment position

4) When the joggers F/R stop, open the door and load A\$/LT paper in the alignment tray, and check the jogger width visually.
5) When the jogger width is too wide or too narrow, use [△] key and [▽] key again to change the adjustments value. Press [OK] key to shift the jogger to the A4/LT alignment position, and check visually.

The table below shows relationship between the adjustment value and the jogger width.

Adjustment value	Jogger width
Decreased by 1.	Increased by about 0.375mm.
Increased by 1.	Decreased by about 0.375mm

6) After completion of the adjustment, remove the paper from the alignment tray and terminate the DIAG MODE.

C. MFP adjustment procedure

1) When the sub code of the simulation is entered, the following display is shown.

SIMULATION 3-6
FINISHER JOGGER ADJUSTMENT.INPUT VALUE 40-60,AND PRESS START.
50

SIM 3-6: Jogger position adjustment

2) Enter the adjustment value with [0] - [9] keys and press START key, and the menu below will be displayed. (Adjustment range: 40 - 60)

SIMULATION 3-6
FINISHER JOGGER ADJUSTMENT.MOVING...
50

SIM 3-6: Jogger moving

When the stopper is turned on, and finisher joggers F/R move to and stop at the positions shown in the table below.

Destination	Jogger position
Inch series	LT size alignment position
AB series	A4 size alignment position

3) When the joggers F/R stop, open the door and load A4/LT paper in the alignment tray, and check the jogger width visually.
4) When the jogger width is too wide or too narrow, use [0] - [9] key again to change the adjustments value. Press [START] key to shift the jogger to the A4/LT alignment position, and check visually.

The table below shows relationship between the adjustment value and the jogger width.

Adjustment value	Jogger width
Decreased by 1.	Increased by about 0.375mm.
Increased by 1.	Decreased by about 0.375mm

5) After completion of the adjustment, remove the paper from the alignment tray and terminate the simulation.

[9] DISASSEMBLY AND ASSEMBLY, MAINTENANCE

1. Maintenance System Table

× Check (Clean, replace, or adjust as necessary.) ○ Clean ▲ Replace △ Adjust ☆ Lubricate □ Move position

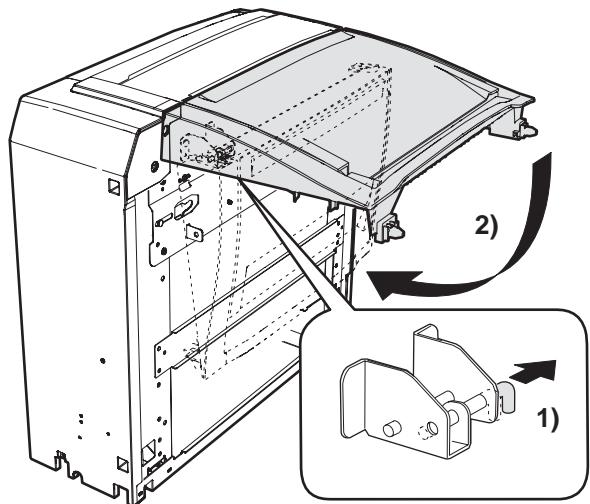
Unit name	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Transport section	Transport rollers	○		○		○		○		○	
	De-curler roller	(○)×	×	○	×	○	×	○	×	○	
	Transport paper guides	○		○		○		○		○	
Drive section	Gears	☆		☆		☆		☆		☆	(Specified position)
	Belts						×				
Other	Sensors	×		×		×		×		×	
	Discharge brush	×		×		×		×		×	
Staple un											Replace UN at 100K staple.
Staple cartridge											User replacement for every 3000pcs.

2. Disassembly and assembly

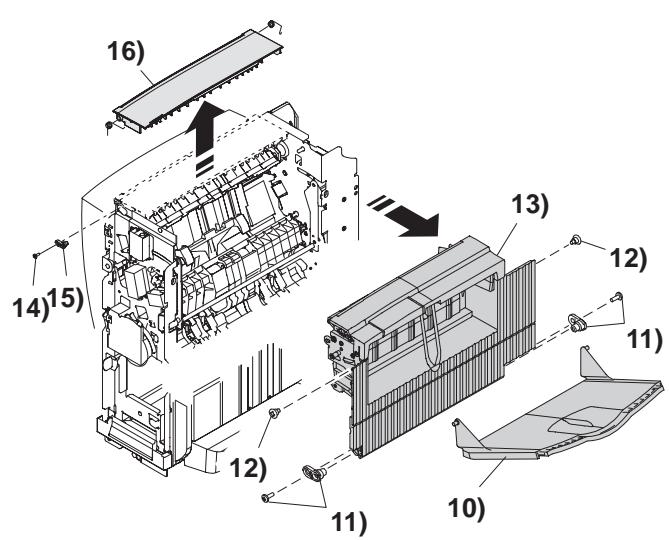
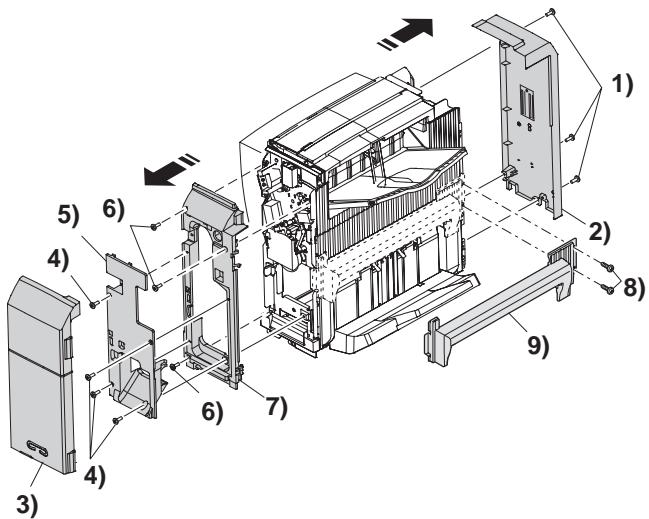
A. Unit transit

Note: When carrying the finisher unit removed from the printer, fold the transport unit as described below.

If not, the frame may be bent, causing a breakdown of the machine.

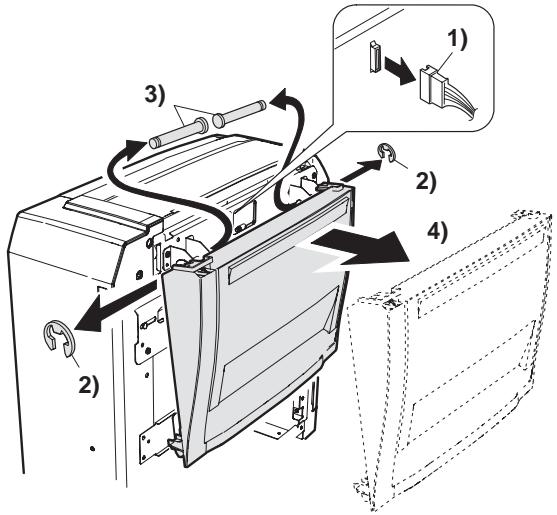


B. External cabinet

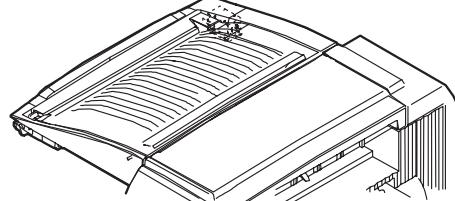
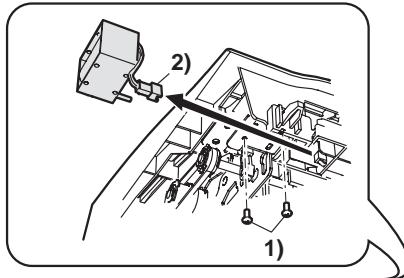


C. Transport unit

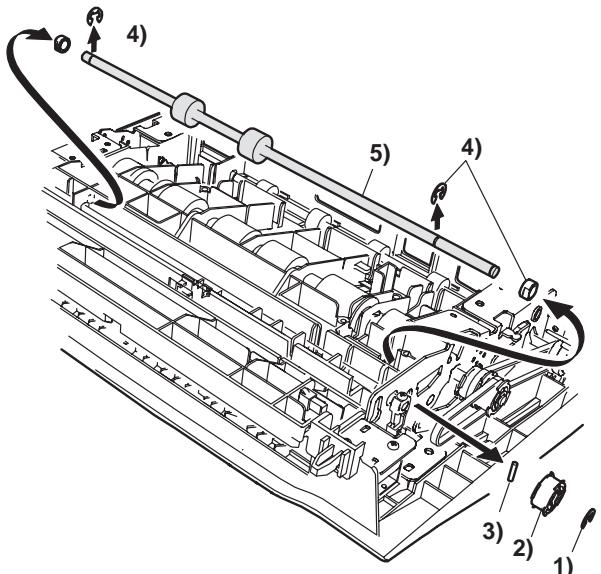
No.	Parts name	Job item	cycle
1	Transport rollers	Clean	100K
2	De-curler roller	Check	50K
		Clean	100K
3	Transport paper guide	Clean	100K



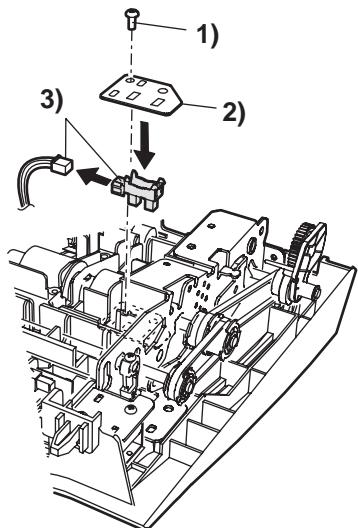
(1) Gate solenoid



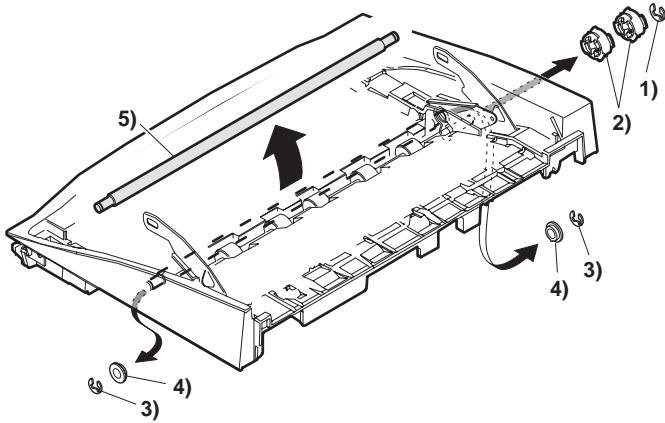
(2) Transport roller



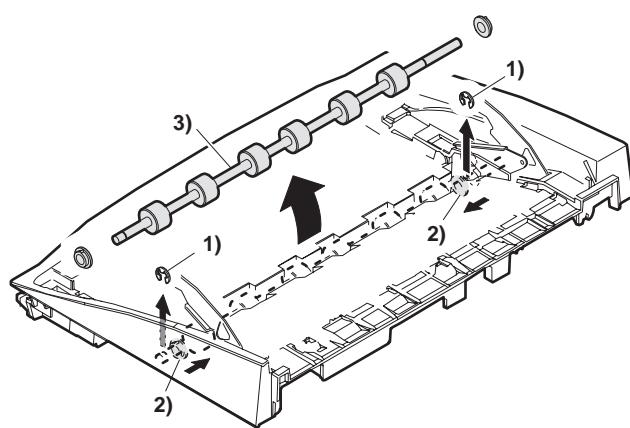
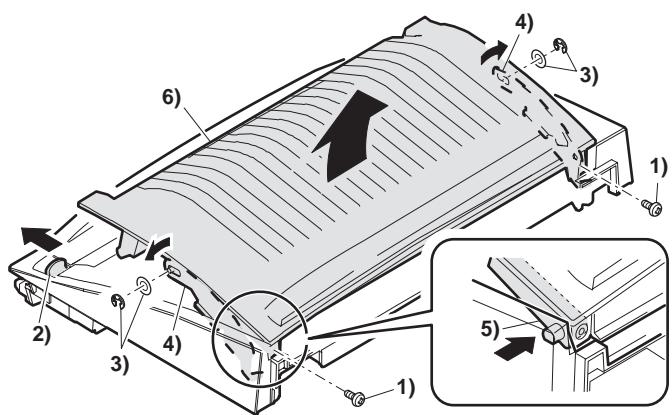
(3) Upper open/close sensor



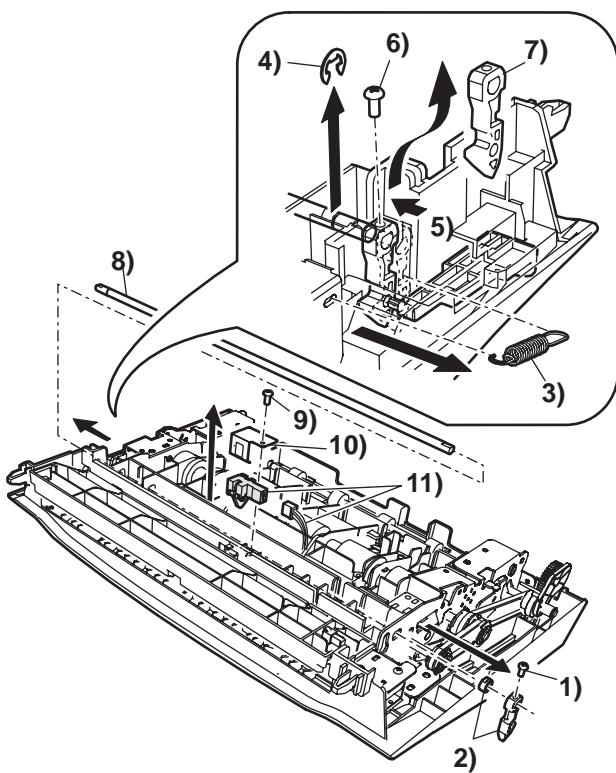
(6) De-curler roller



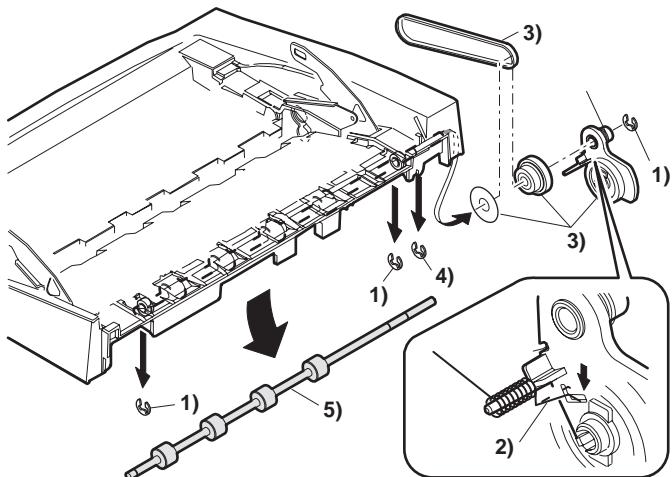
(4) Upper cover



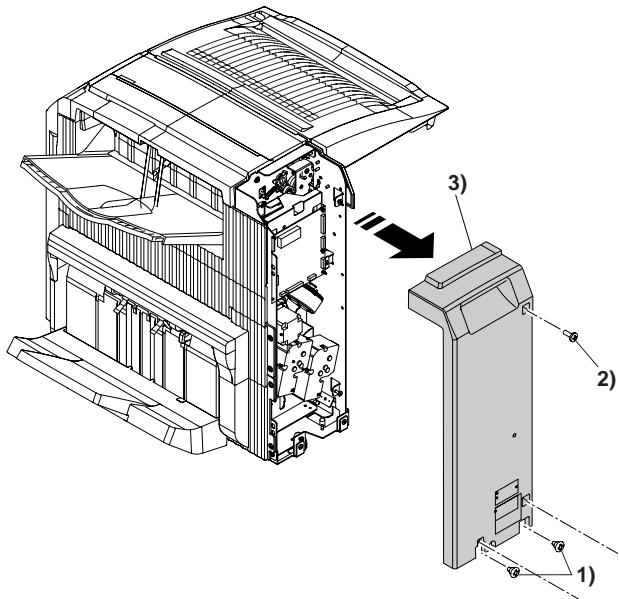
(5) Paper entry sensor



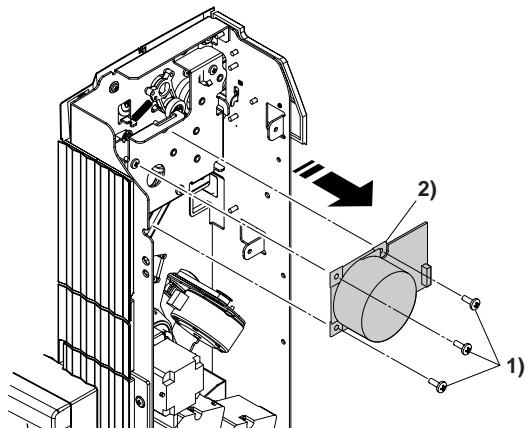
(7) Transport roller



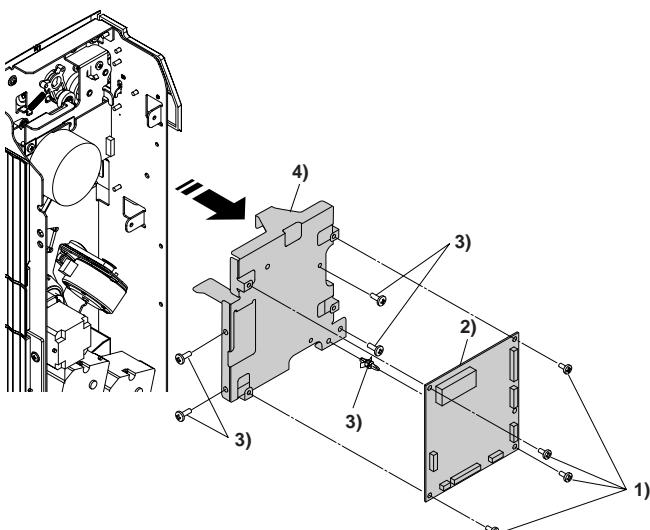
D. Rear side of the unit



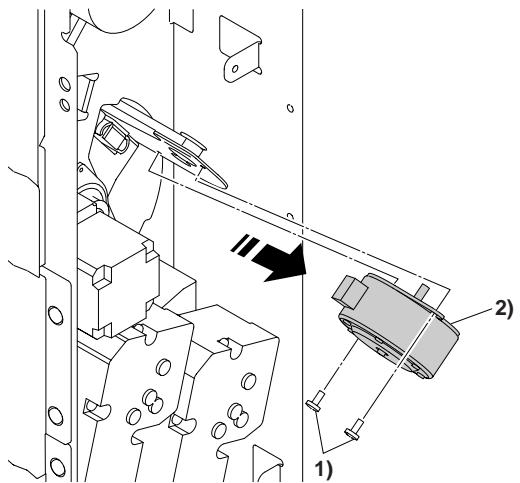
(1) Main motor



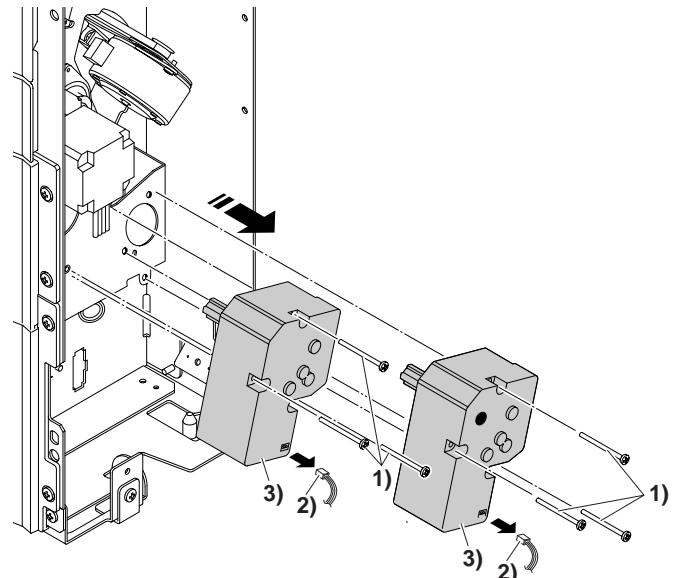
(2) Main control PWB



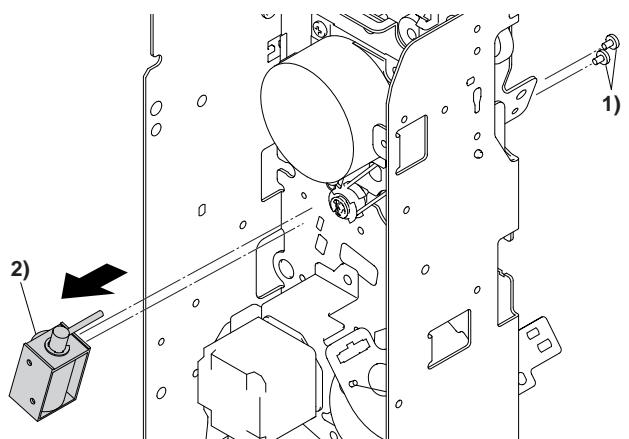
(3) Staple shift motor



(4) Elevator motor / Staple rotation motor



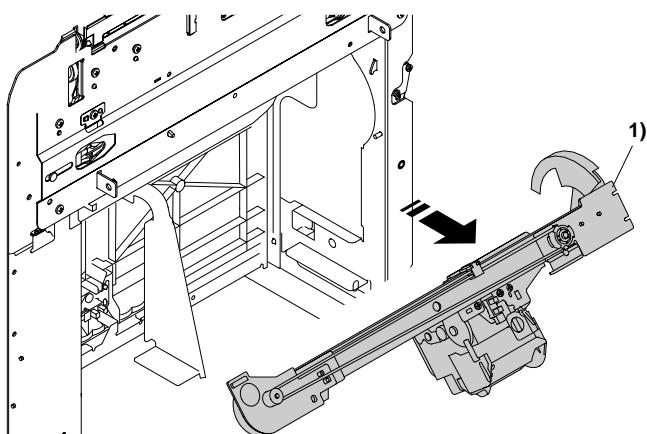
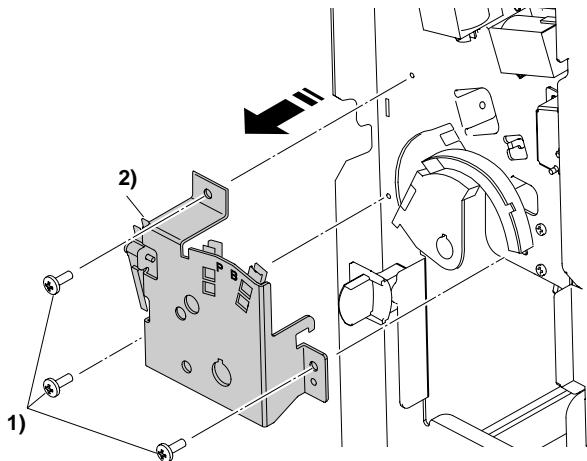
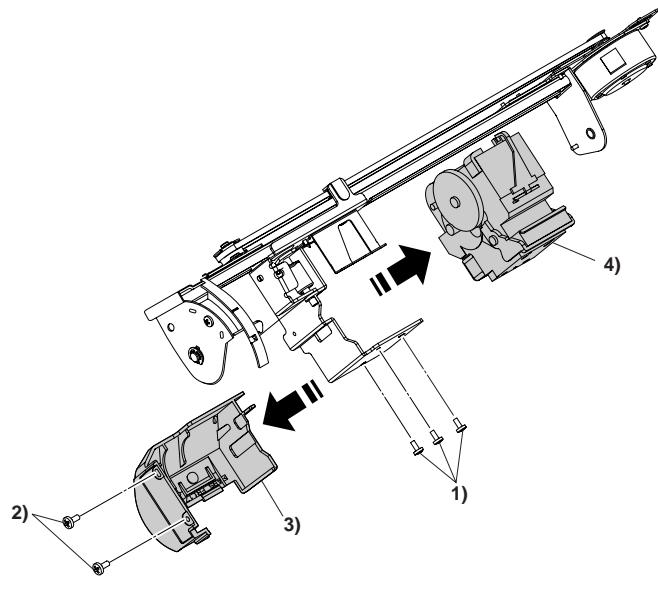
(5) Pressure-release solenoid



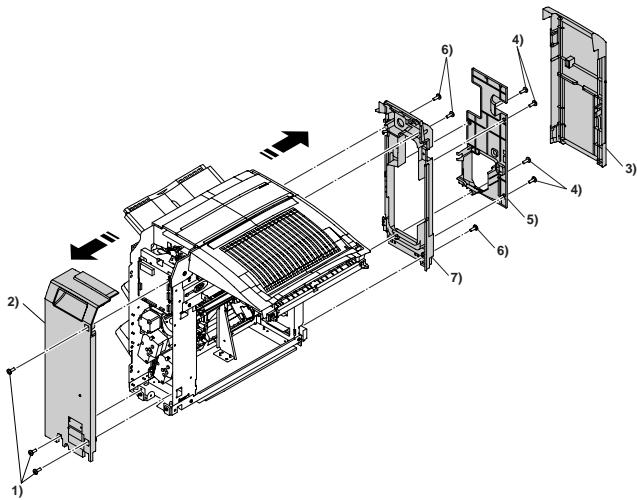
E. Stapler

No.	Parts name	Job item	cycle
1	Staple UN	Replace	100K staple
2	Staple cartridge	User replacement	3000pc.

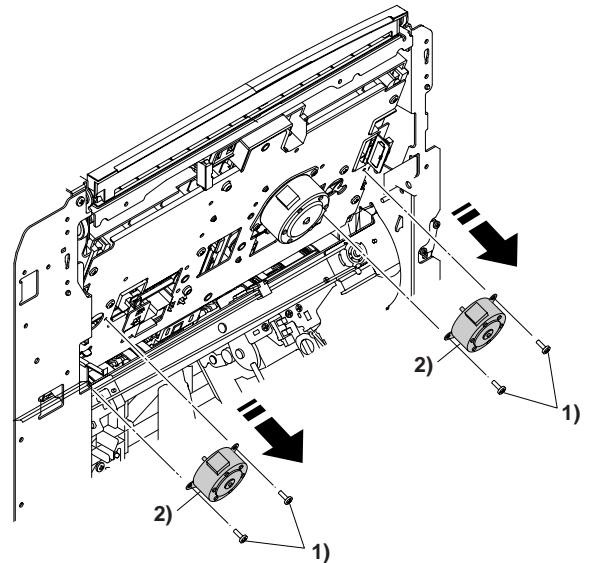
(1) Stapler unit



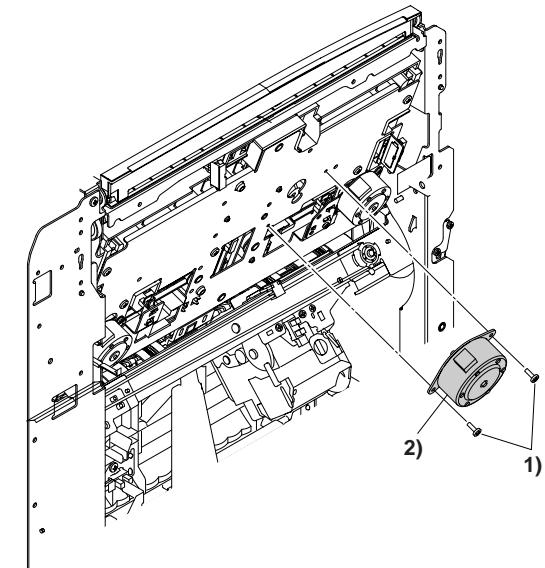
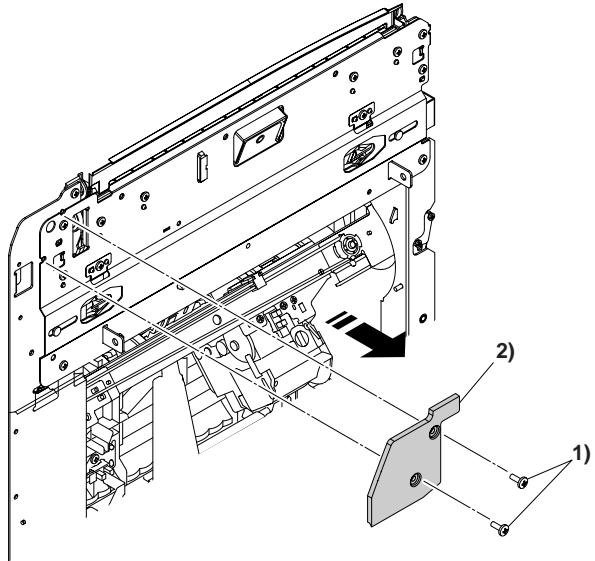
F. Inside of the unit



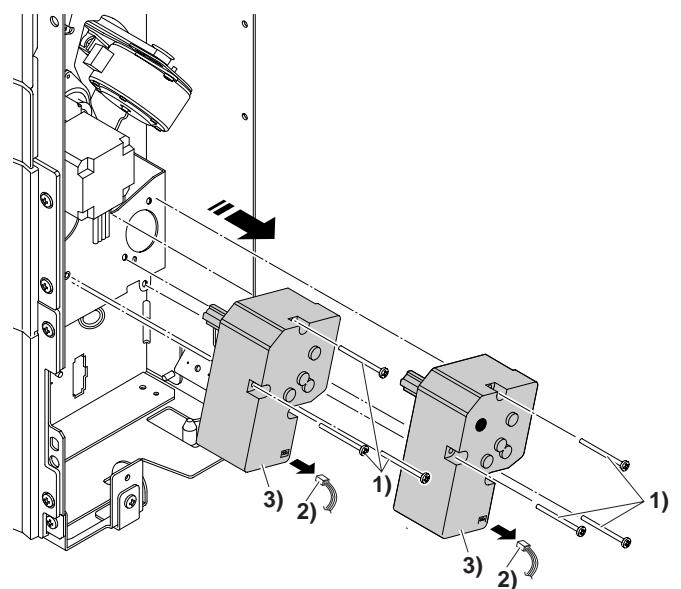
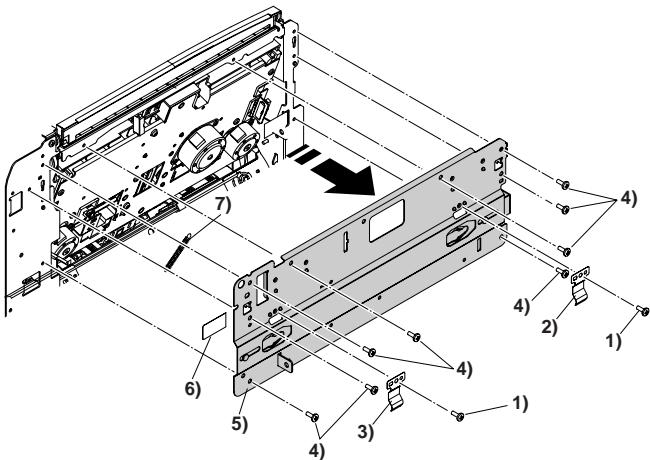
(1) Jogger motor



(2) Pusher motor



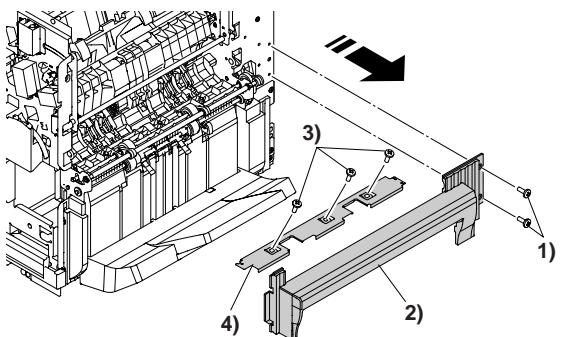
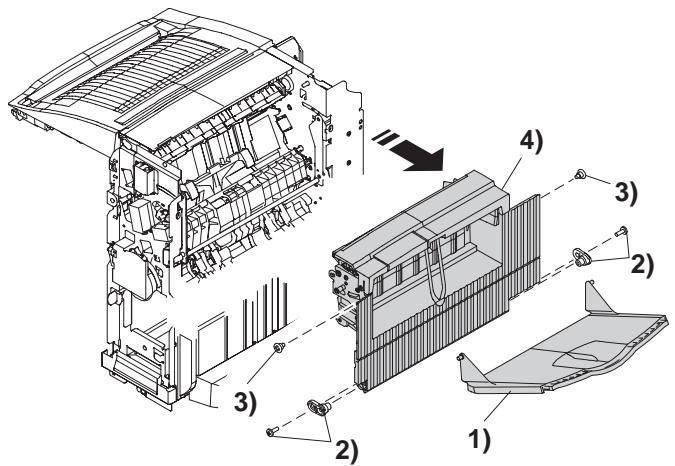
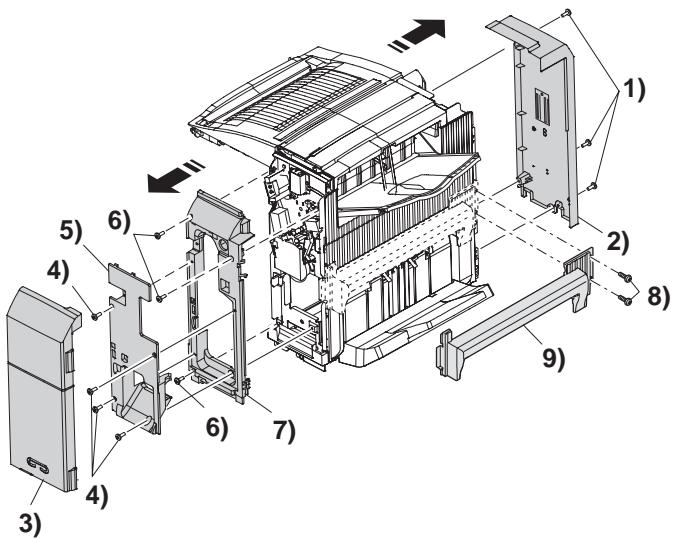
(3) Elevator unit



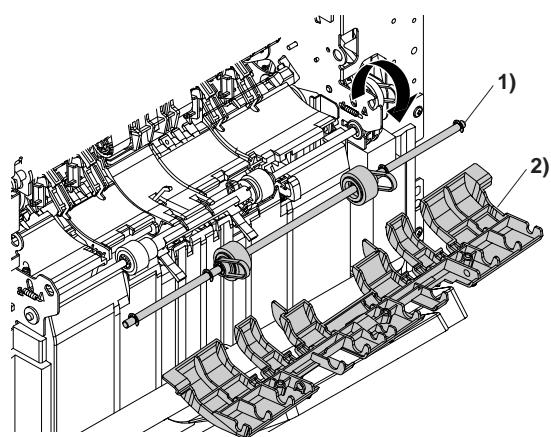
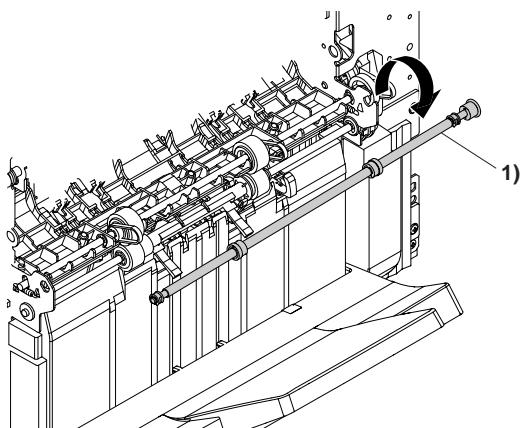
G. Right side of the unit (Paper exit side)

No.	Parts name	Job item	cycle
1	Transport roller	clear	100K

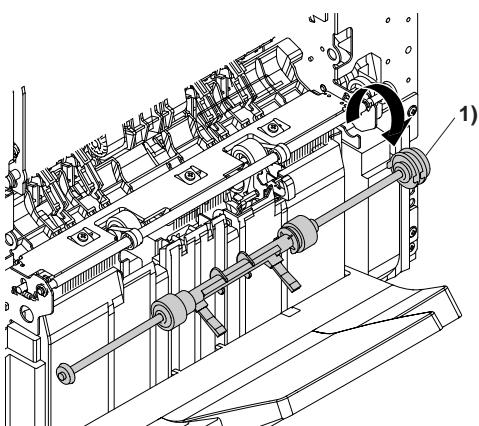
(1) External cabinet



(2) Lower stage tray paper exit roller

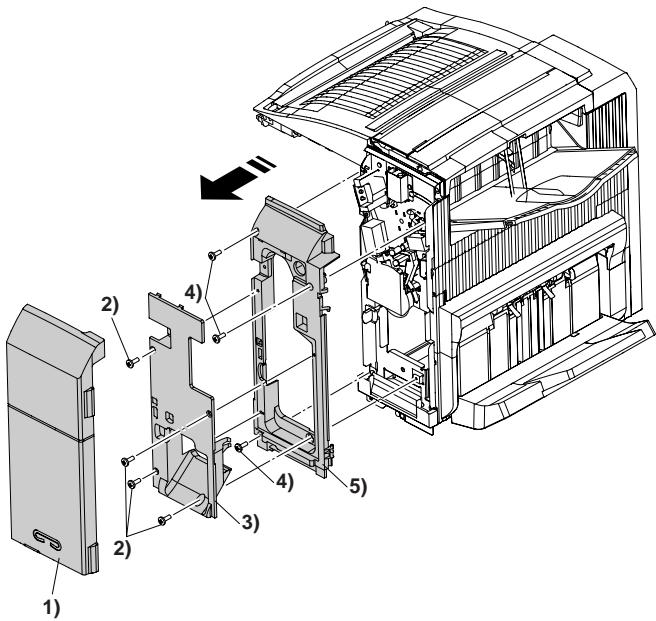


(3) Paper exit paddler

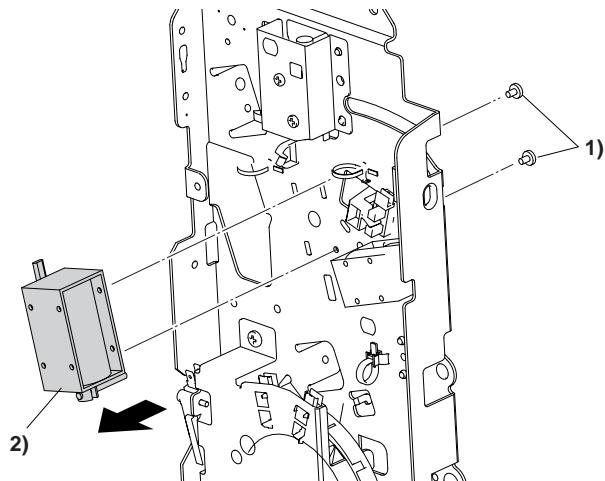


H. Front side of the unit

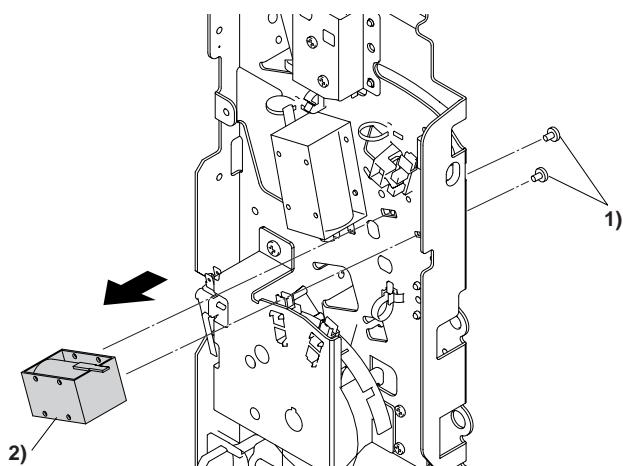
No.	Parts name	Job item	cycle
1	Paper guide	clean	100K



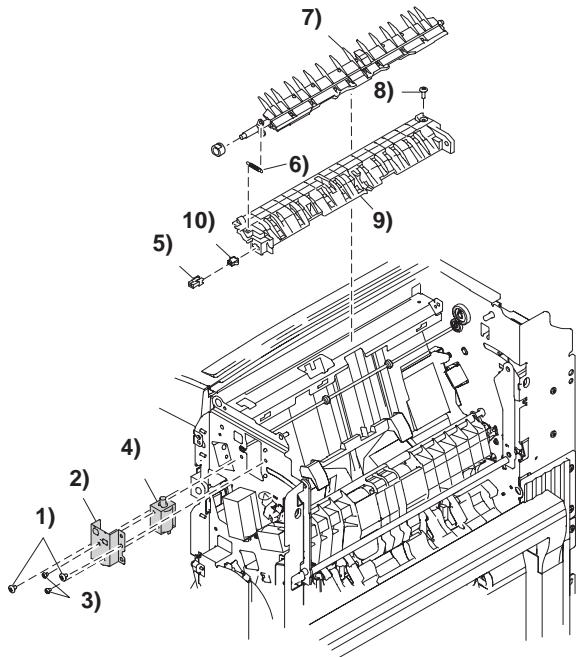
(1) Stopper solenoid



(2) Paper holding solenoid

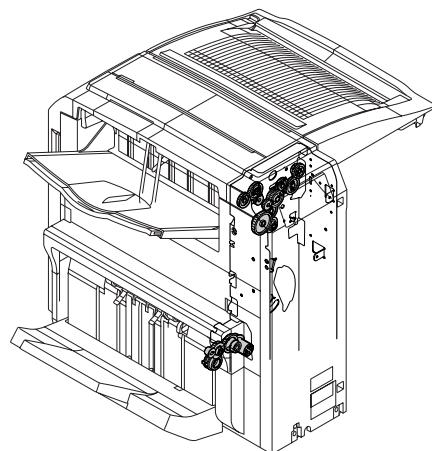


(3) Compiler paper entry gate solenoid



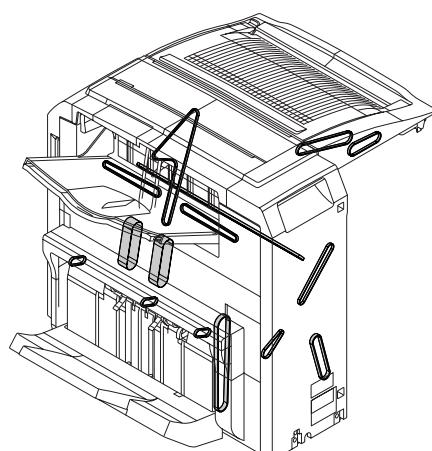
I. Gears, Clutch

No.	Parts name	Job item	cycle
1	Gears	Lubricate	100K



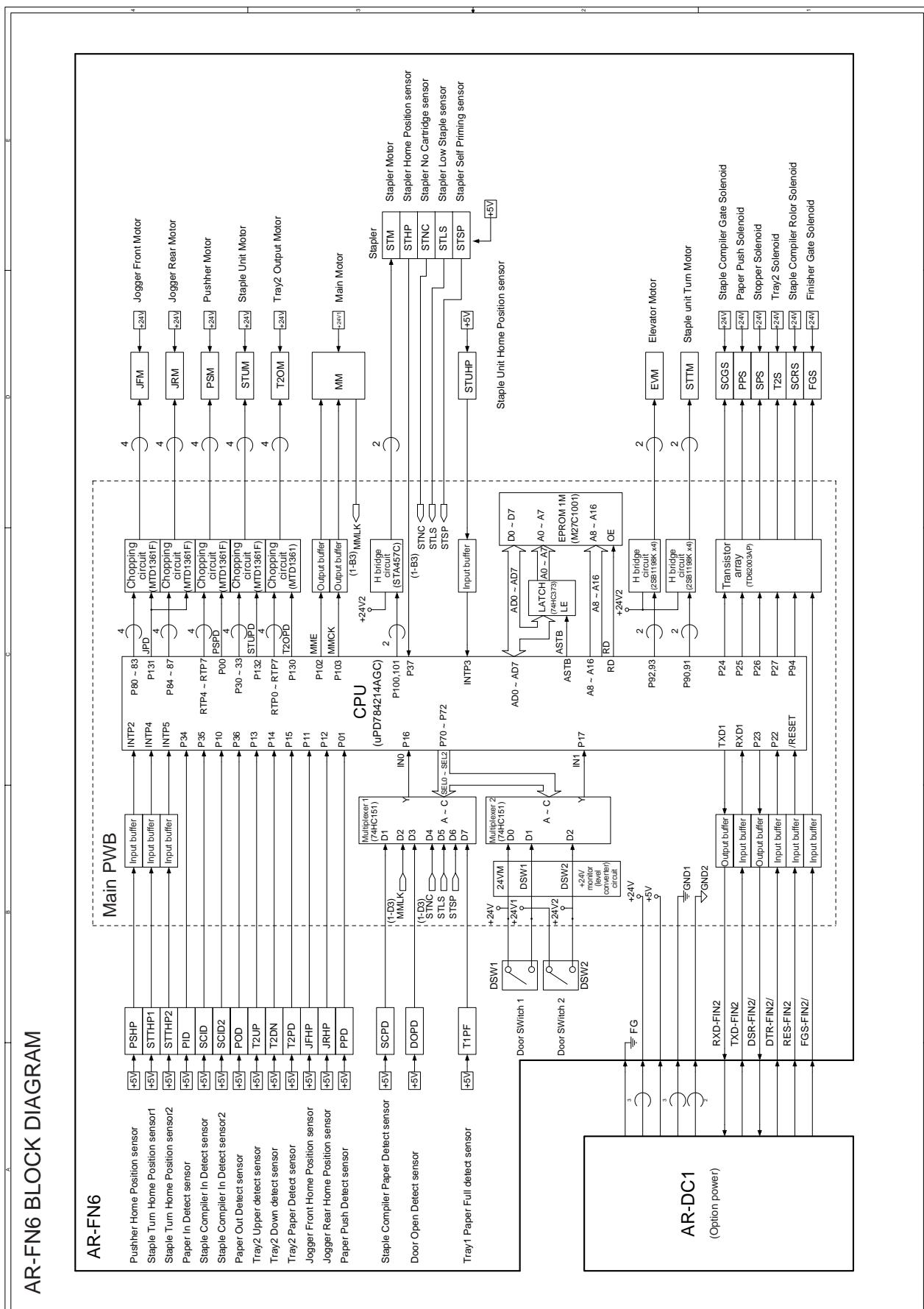
J. Belts

No.	Parts name	Job item	cycle
1	Belts	clear	300K

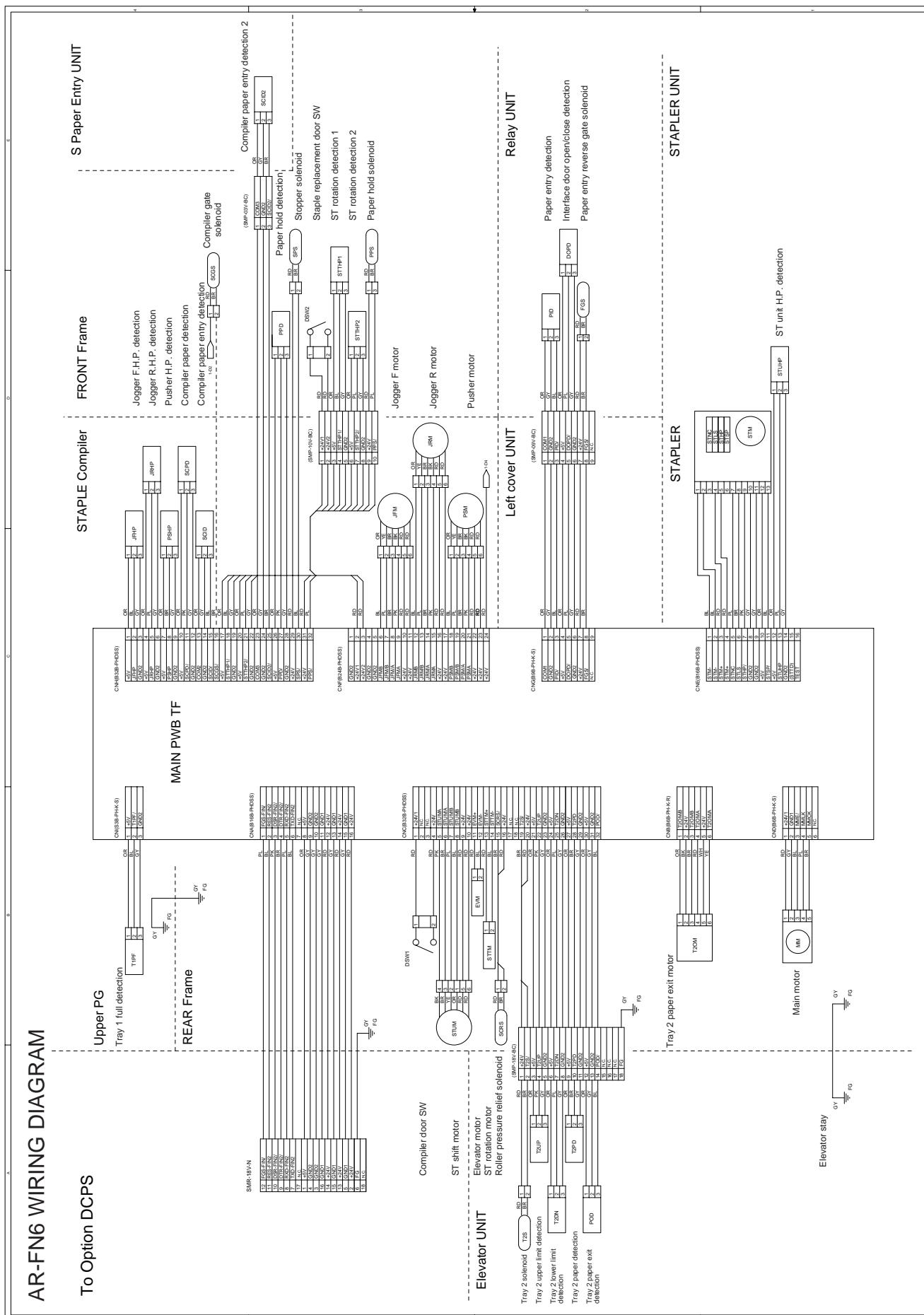


[10] BLOCK DIAGRAM, WIRING DIAGRAM

1. Block Diagram

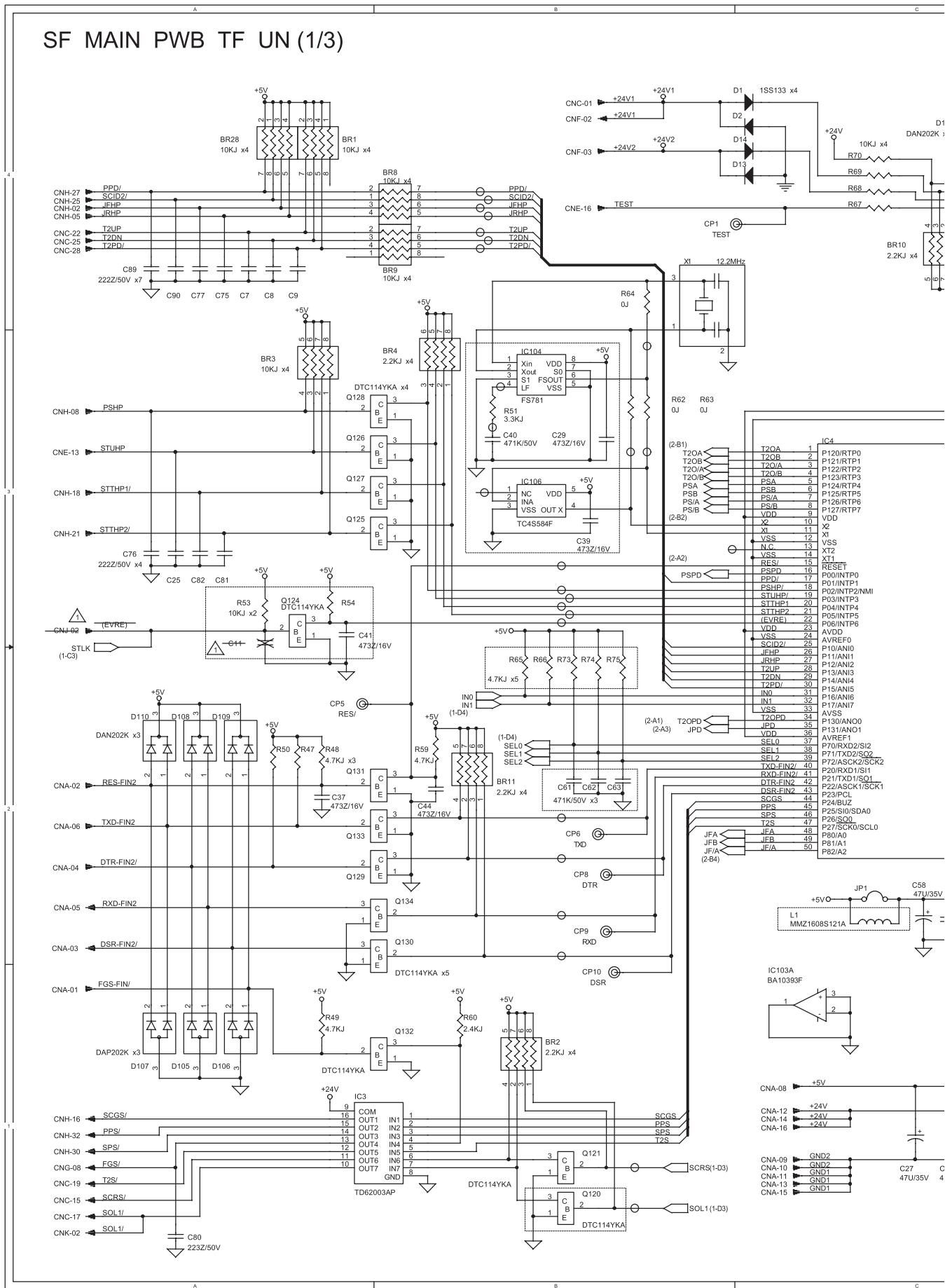


2. Wiring Diagram

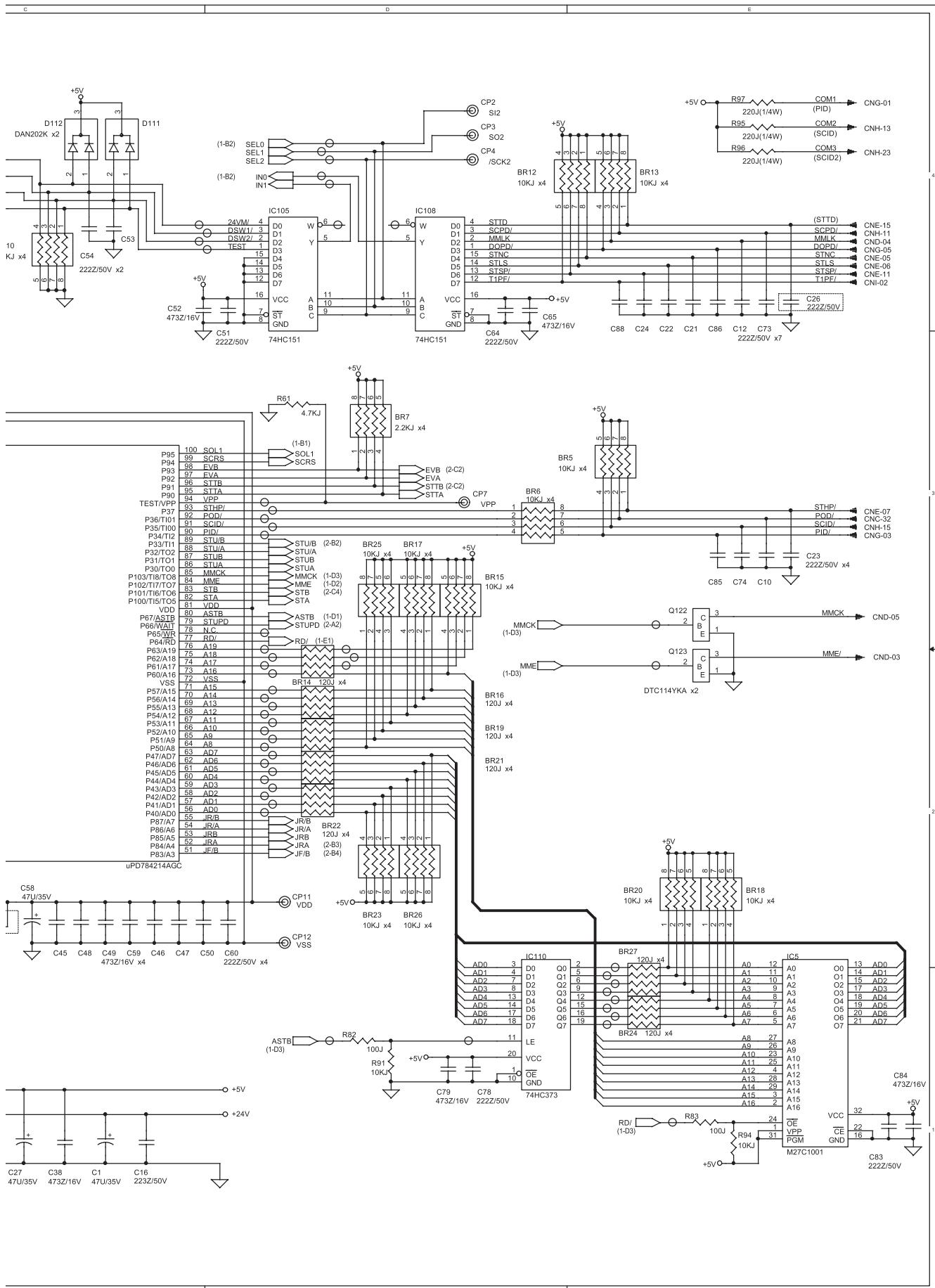


AR-FN6 BLOCK DIAGRAM, WIRING DIAGRAM 10-2

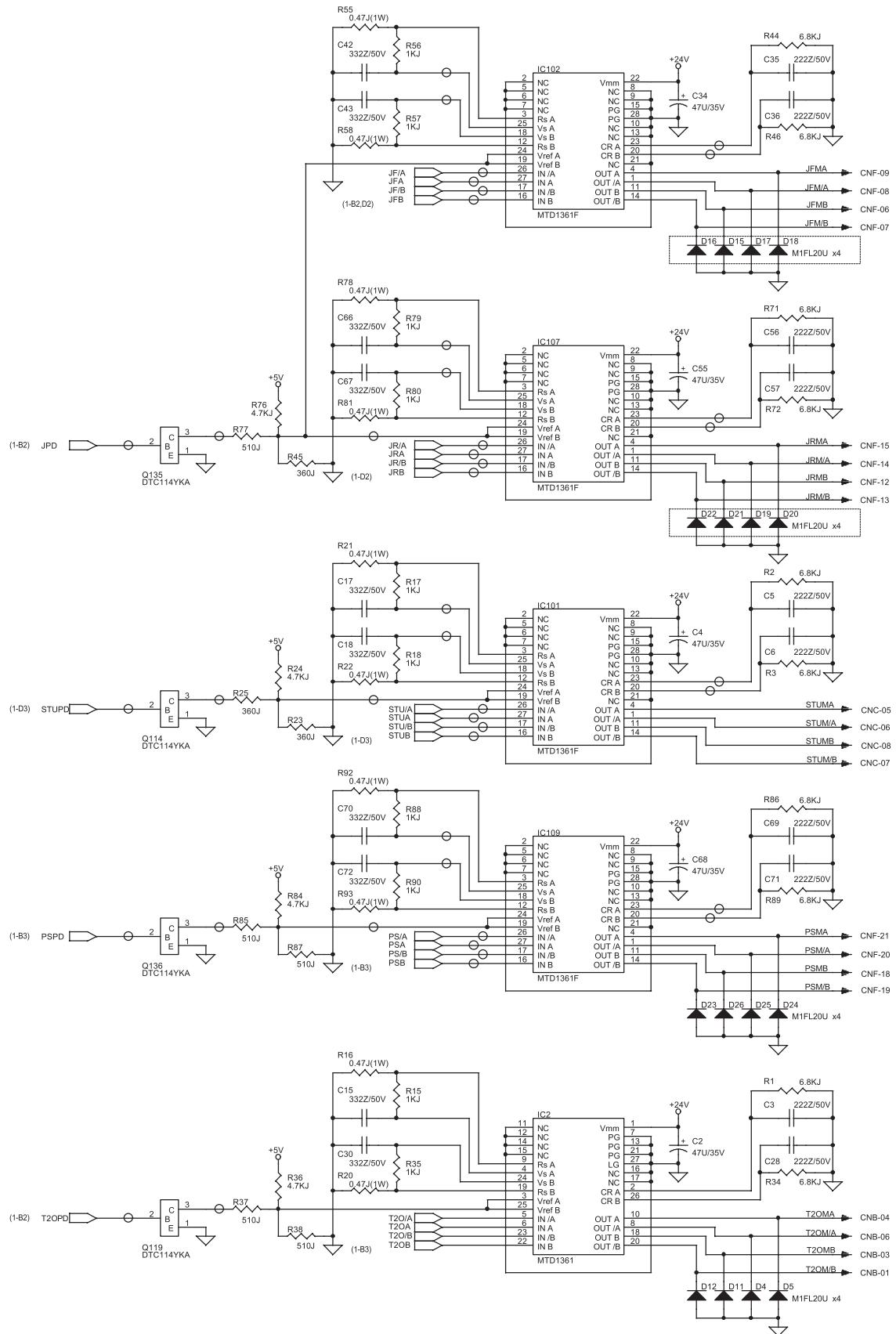
3. Circuit Diagram

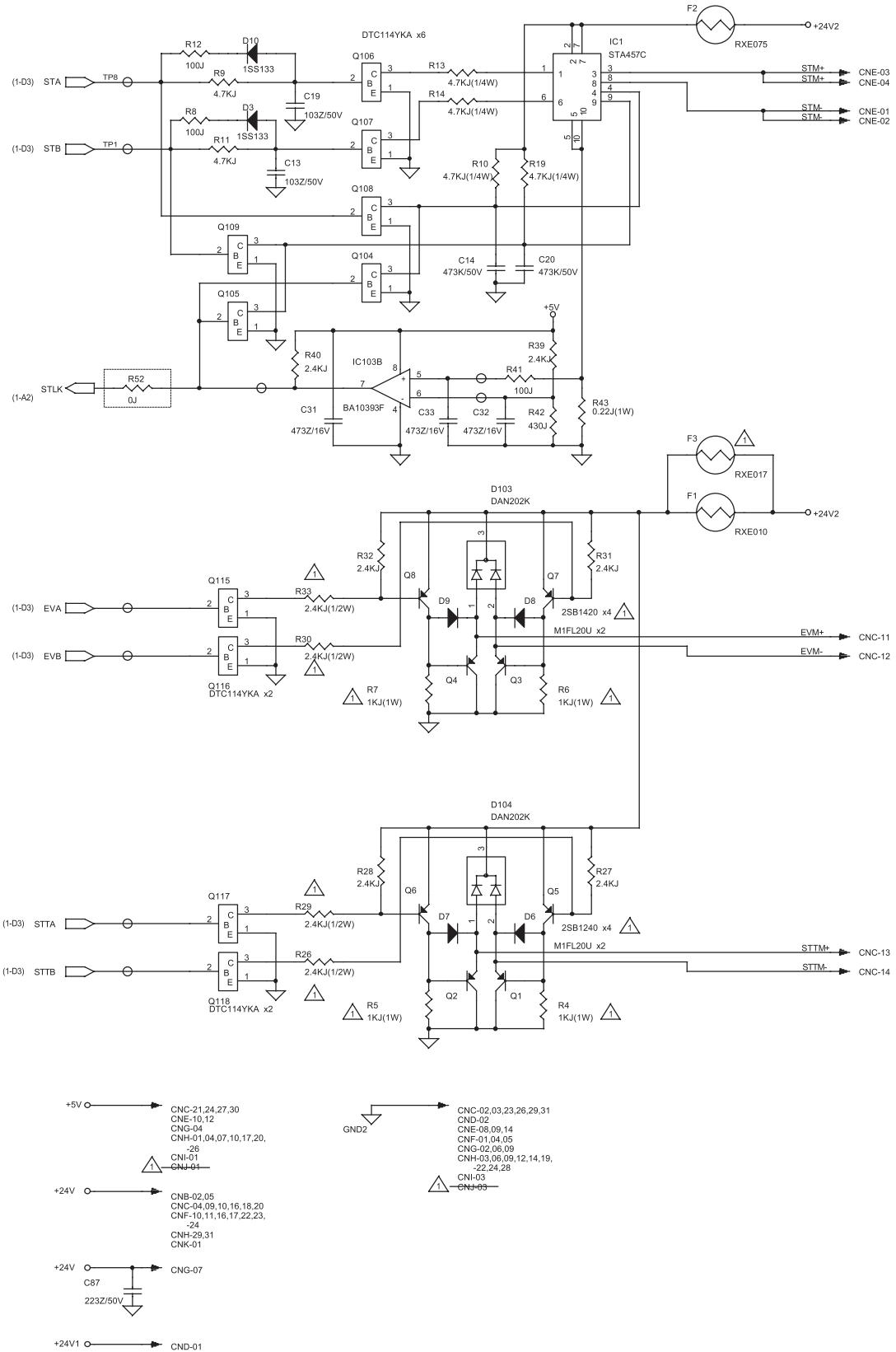


AR-FN6 BLOCK DIAGRAM, WIRING DIAGRAM 10-3



SF MAIN PWB TF UN (2/3)





AR-FN6 BLOCK DIAGRAM, WIRING DIAGRAM 10-6

SF MAIN PWB TF UN (3/3)

CNA (S16B-PHDSS)		
NO	SIGNAL	
01	FGS-FIN1	FGS
02	RES-FIN2	
03	DSR-FIN2/	
04	DTR-FIN2/	UART
05	RXD-FIN2	
06	TXD-FIN2	
07	N.C.	
08	+5V	
09	GND2	
10	GND2	
11	GND1	
12	+24V	POWER
13	GND1	
14	+24V	
15	GND1	
16	+24V	

CNB (B6B-PH-K-R)		
NO	SIGNAL	
01	T20M/B	
02	+24V	
03	T20MB	
04	T20MA	
05	+24V	
06	T20M/A	

CND (B6B-PH-K-S)		
NO	SIGNAL	
01	+24V1	
02	GND1	
03	MME/	
04	MMLK	
05	MMCK	
06	N.C.	

CNC (S32B-PHDSS)		
NO	SIGNAL	
01	+24V1	DSW1
02	GND2	
03	GND2	
04	+24V	
05	STUMA	STUM
06	STUM/A	
07	STUM/B	
08	STUMB	
09	+24V	
10	+24V	
11	EVM+	EVM
12	EVM-	
13	STTM+	STTM
14	STTM-	
15	SCRS/	SCRS
16	+24V	
17	SOL1/	(SOL1)
18	+24V	
19	T2S/	T2S
20	+24V	
21	+5V	T2UP
22	T2UP	
23	GND2	
24	+5V	T2DN
25	T2DN	
26	GND2	
27	+5V	T2PD
28	T2PD/	
29	GND2	
30	+5V	POD
31	GND2	
32	POD/	

CNE (B16B-PHDSS)	
NO	SIGNAL
01	STM-
02	STM-
03	STM+
04	STM+
05	STNC
06	STLS
07	STHP/
08	GND2
09	GND2
10	+5V
11	STSP/
12	+5V
13	STUHP
14	GND2
15	(STTD)
16	TEST

CNF (B24B-PHDSS)		
NO	SIGNAL	
01	GND2	
02	+24V1	
03	+24V2	DSW2
04	GND2	
05	GND2	
06	JFMB	
07	JFMB	
08	JFMA	JFM
09	JFMA	
10	+24V	
11	+24V	
12	JRMB	
13	JRMB	
14	JRMA	JRM
15	JRMA	
16	+24V	
17	+24V	
18	PSMB	
19	PSM/B	
20	PSM/A	PSM
21	PSMA	
22	+24V	
23	+24V	
24	+24V	SCGS

CNG (B9B-PH-K-S)		
NO	SIGNAL	
01	COM1	PID
02	GND2	
03	PID/	
04	+5V	
05	DOPD/	DOPD
06	GND2	
07	+24V	
08	FGS/	
09	GND2	FGS

CNH
01
02
03
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31
32

CNI
N
01
02
03

CN
NC
01
02

CNH (B32B-PHDSS)

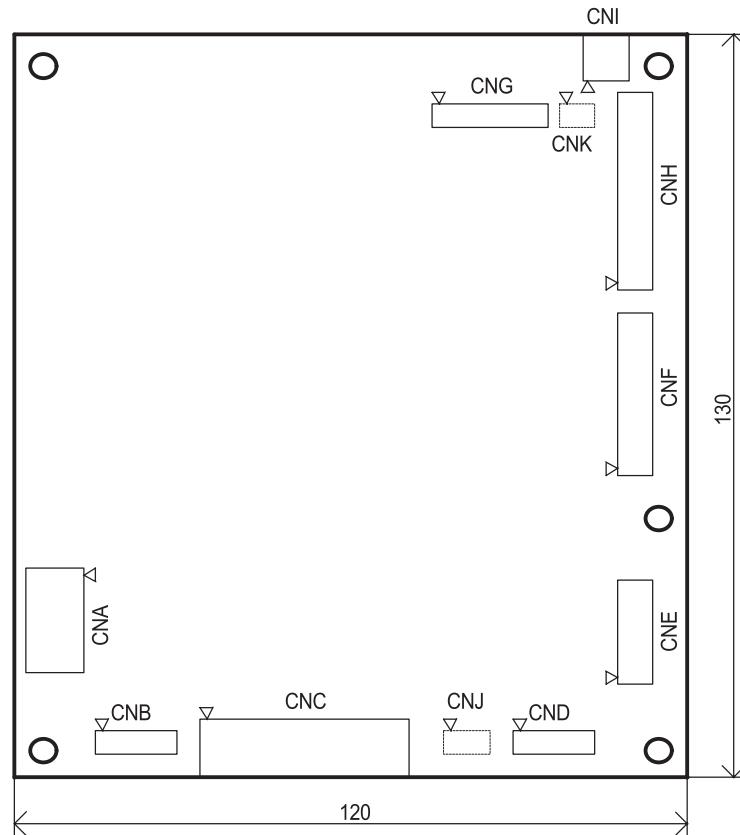
NO	SIGNAL	
01	+5V	JFHP
02	JFHP	
03	GND2	
04	+5V	JRHP
05	JRHP	
06	GND2	
07	+5V	PSHP
08	PSHP	
09	GND2	
10	+5V	SCPD
11	SCPD/	
12	GND2	
13	COM2	SCID
14	GND2	
15	SCID/	
16	SCGS/	SCGS
17	+5V	
18	STTHP1/	
19	GND2	
20	+5V	STTHP2
21	STTHP2/	
22	GND2	
23	COM3	SCID2
24	GND2	
25	SCID2/	
26	+5V	PPD
27	PPD/	
28	GND2	
29	+24V	SPS
30	SPS/	
31	+24V	
32	PPS/	

CNI (S3B-PH-K-S)

NO	SIGNAL	
01	+5V	T1PF
02	T1PF/	
03	GND2	

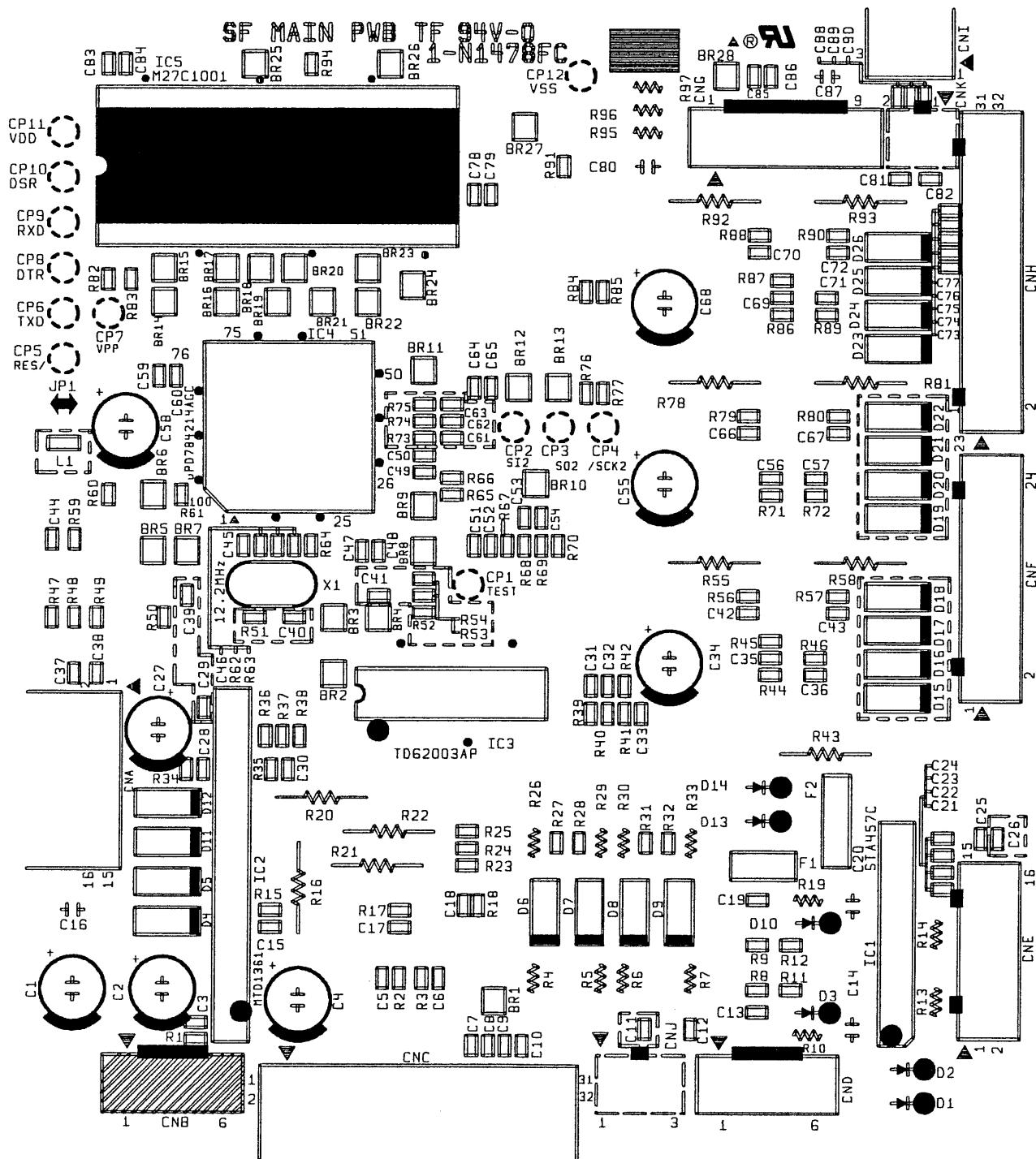
CNK (B2B-PH-K-S)

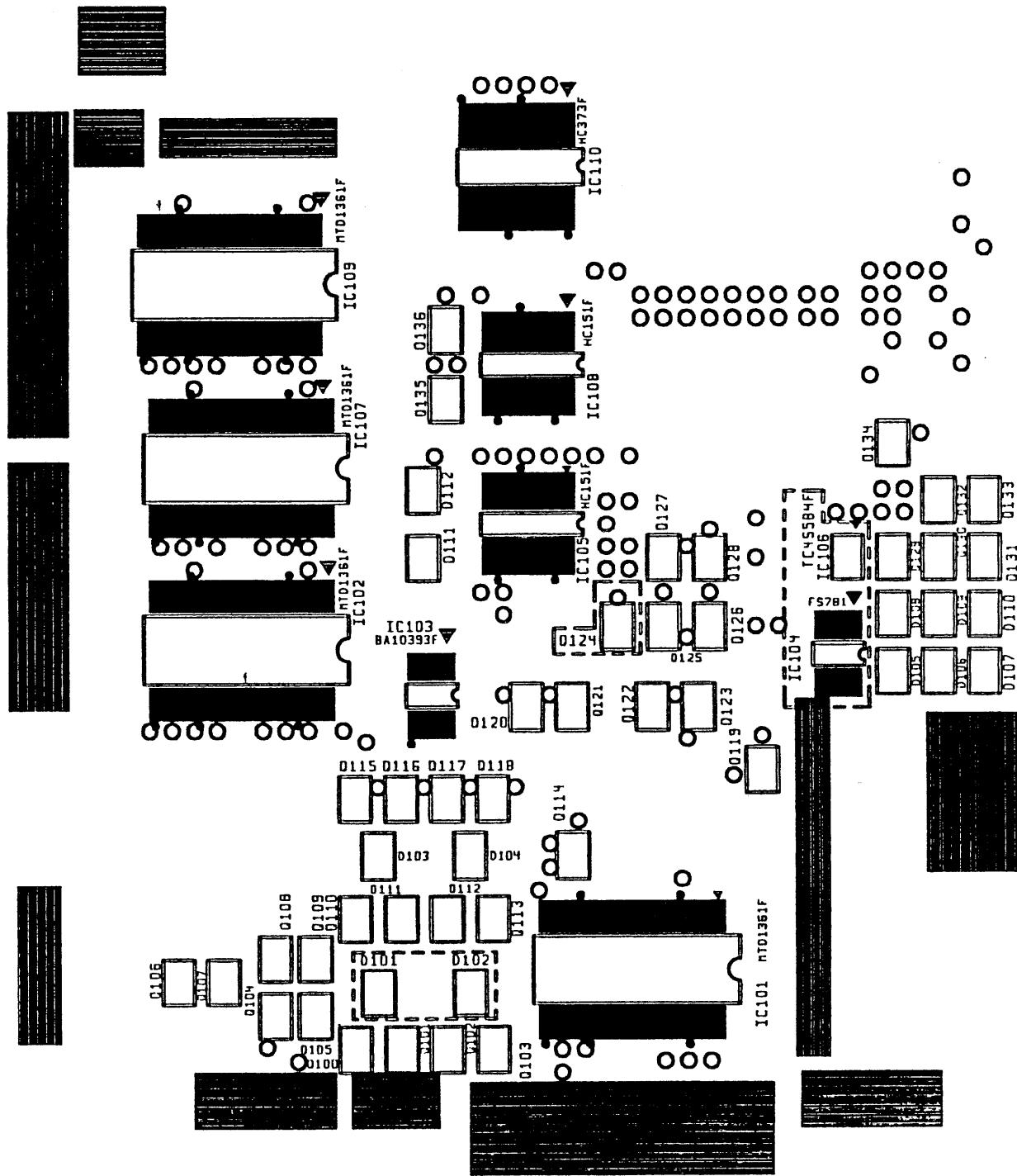
NO	SIGNAL	
01	+24V	
02	SOL1/	(SOL1)



[11] OTHERS

A. SF MAIN PWB TF UN





CAUTION FOR BATTERY REPLACEMENT

(Danish) **ADVARSEL !**
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) **Caution !**
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) **VAROITUS**
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) **ATTENTION**
Il y a danger d'explosion s'il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) **WARNING**
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparat tillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) **Achtung**
Explosionsgefahr bei Verwendung inkorrekt Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)
Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

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